

PD-A184 102

ANTARCTIC ICE CHARTS 1985-1986(U) NAVAL POLAR
OCEANOGRAPHY CENTER WASHINGTON DC AUG 87

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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OGRAPHY CENTER.



The information in the atlas was based on data received from ships, planes and shore stations. This data was further processed and analyzed to produce the final product. The atlas contains information on the ice conditions in the Arctic region during the 1955-1956 season. The data was collected from ships, planes and shore stations. The information was processed and analyzed to produce the final product. The atlas contains information on the ice conditions in the Arctic region during the 1955-1956 season.

This publication is the seventh in a continuing bi-yearly series of atlases prepared in the Polar Ice Center. The atlas contains information on the ice conditions in the Arctic region during the 1955-1956 season. The data was collected from ships, planes and shore stations. The information was processed and analyzed to produce the final product. The atlas contains information on the ice conditions in the Arctic region during the 1955-1956 season.

Ships and planes were also authorized to report their ice observations from ships, planes and shore stations. All these data were incorporated into the weekly analysis and significantly improved the quality of the final product.

Table 1 located on the inside back cover summarizes satellite data available during 1955 and 1956.

The ice charts contained in this atlas were derived from a manual synthesis of the ice data received by the JEC. Analyses were performed by trained Navy and Air Force personnel. The data, primarily observation and measurement data, was analyzed and synthesized to produce the final product. The following analysis procedure was used:

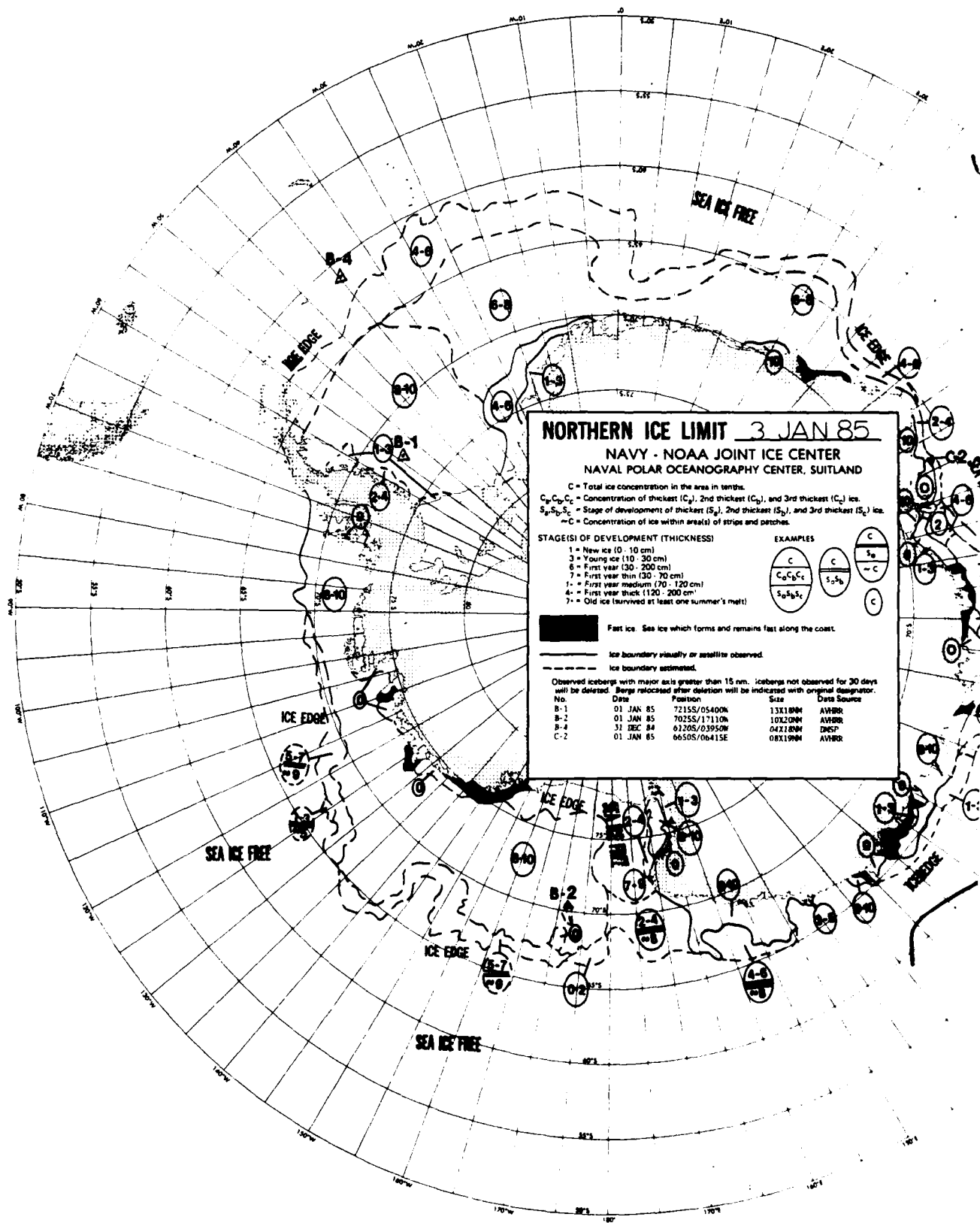
1. All available ship, plane and shore station data were analyzed and synthesized to produce the final product.

2. The data was analyzed and synthesized to produce the final product.

3. The data was analyzed and synthesized to produce the final product.

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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11. CONTROLLING OFFICE NAME AND ADDRESS Commander Naval Oceanography Command NSTL, MS 39529		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Sea ice, polar ice fields; satellite imagery; concentration; stage of development; fast ice; concentration of thickness; theoretical thickness; Antarctic ice charts; <i>provides</i>		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) These are approximately 7-days analysis of sea ice prepared by the Naval Polar Oceanography Center, Suitland, MD. Included are ice concentration and ice thickness (age). <i>Reynolds Group, 1985-1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 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NORTHERN ICE LIMIT 3 JAN 85

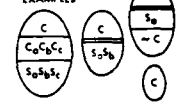
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice.
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 $-C$ = Concentration of ice within area(s) of stripe and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 100 cm)
- 7 = First year thin (30 - 70 cm)
- 1- = First year medium (70 - 120 cm)
- 4- = First year thick (120 - 200 cm)
- 7- = Old ice (survived at least one summer's melt)

EXAMPLES

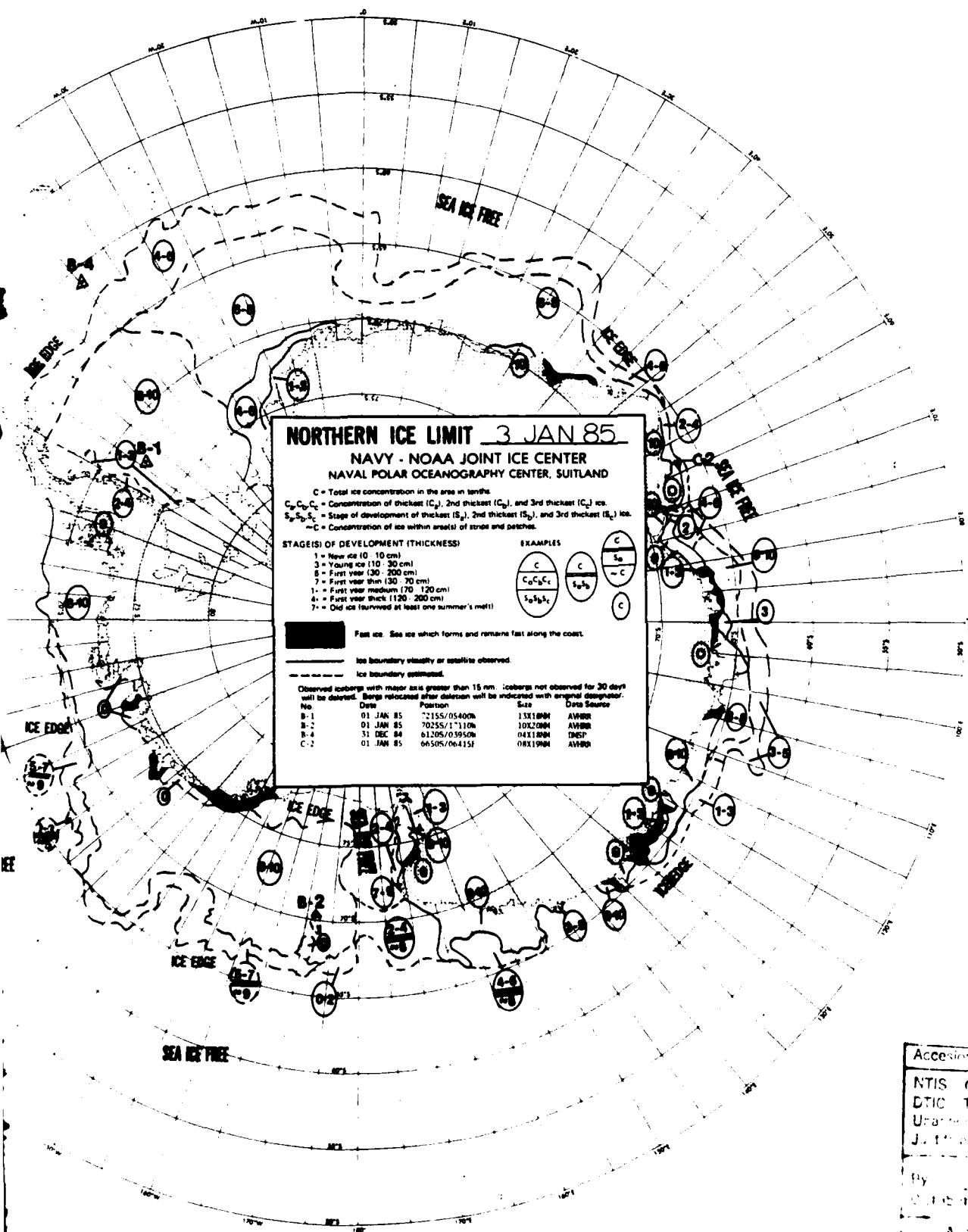


Fast ice: See ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed.

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

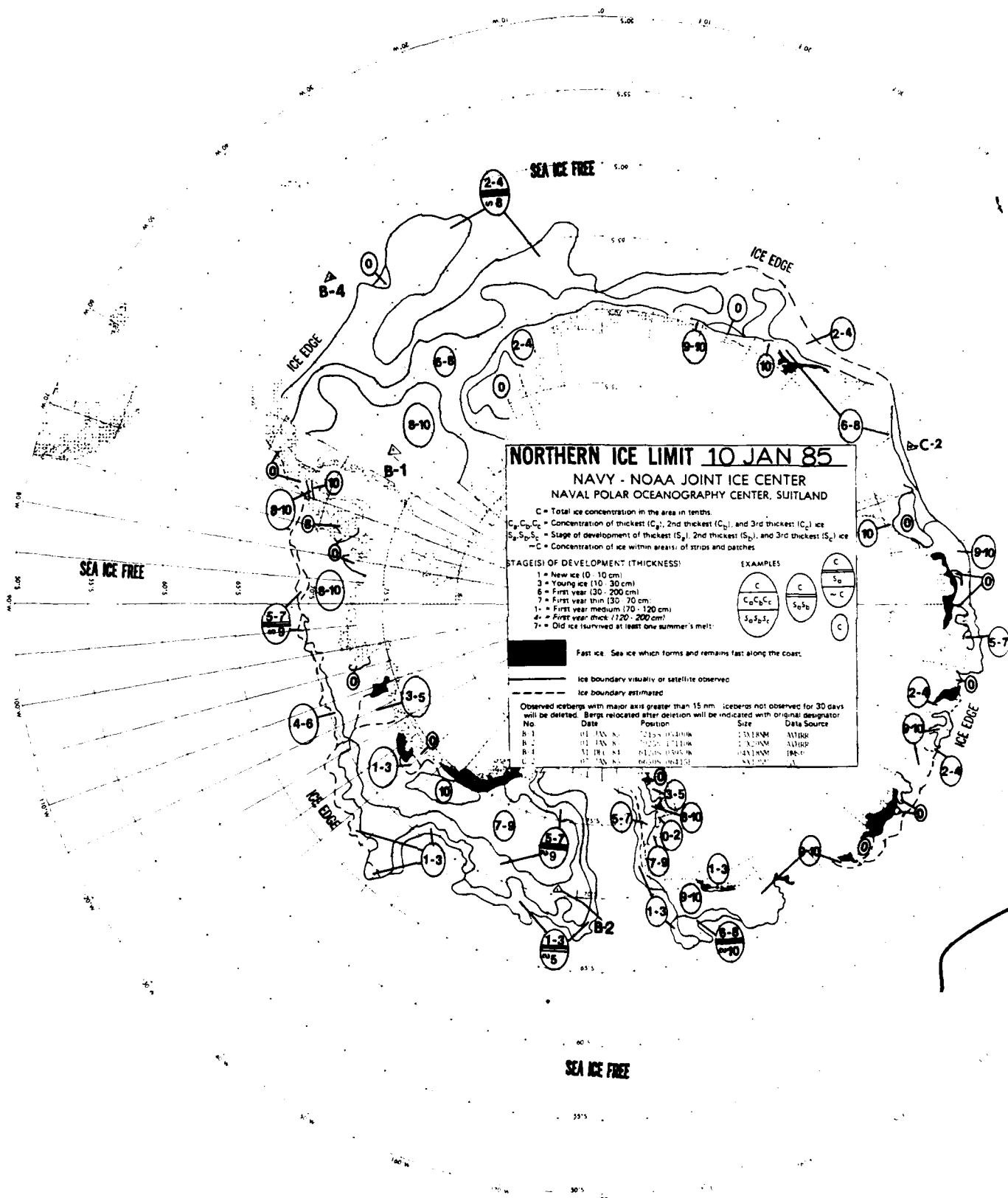
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C-2	01 JAN 85	66505/06415E	08X19NM	AVHRR

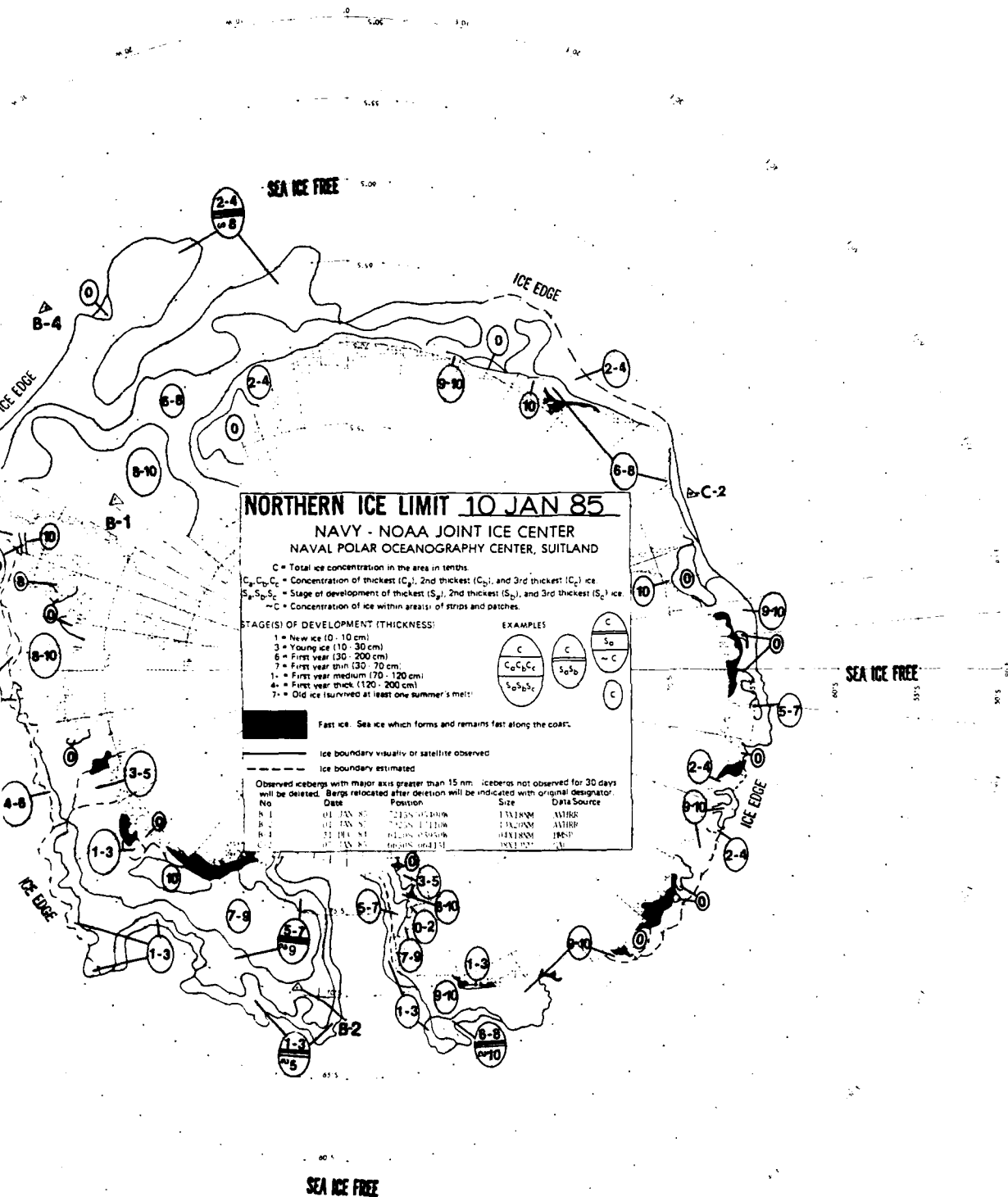


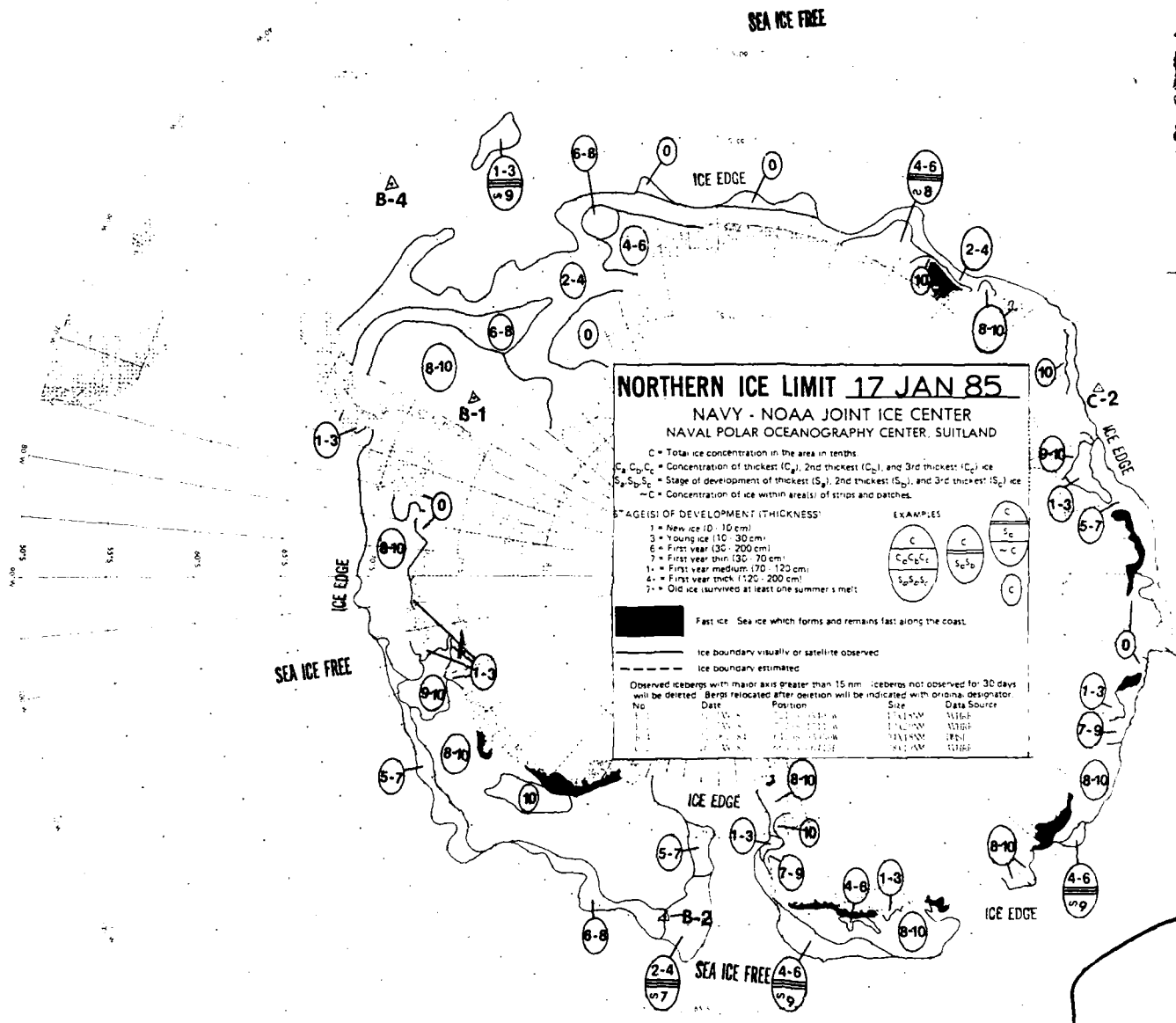
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SEA ICE FREE

NORTHERN ICE LIMIT 17 JAN 85

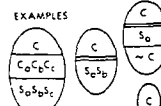
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
C = Concentration of ice within areas of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES



Fast ice: Sea ice which forms and remains fast along the coast.

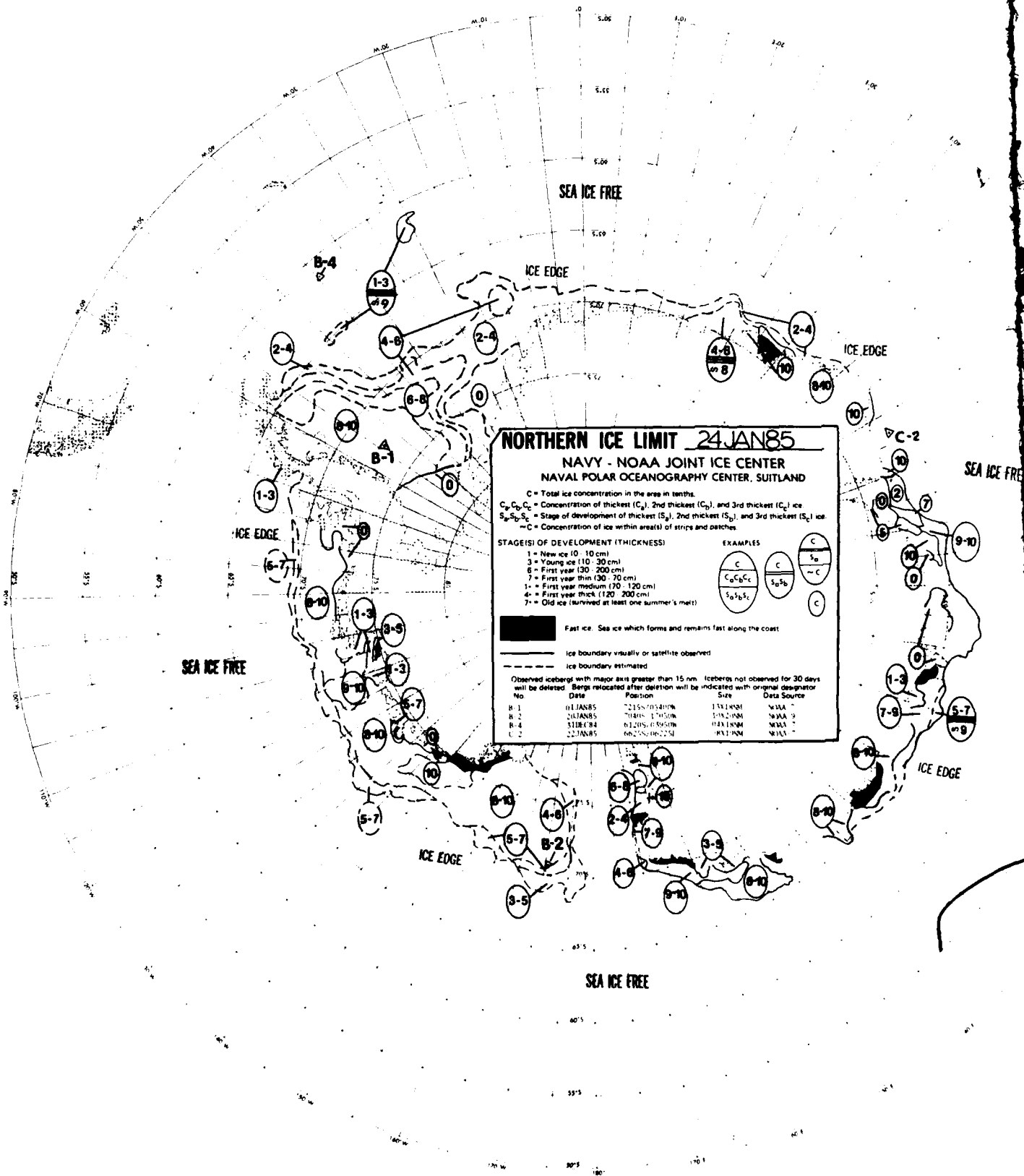
Ice boundary visually or satellite observed

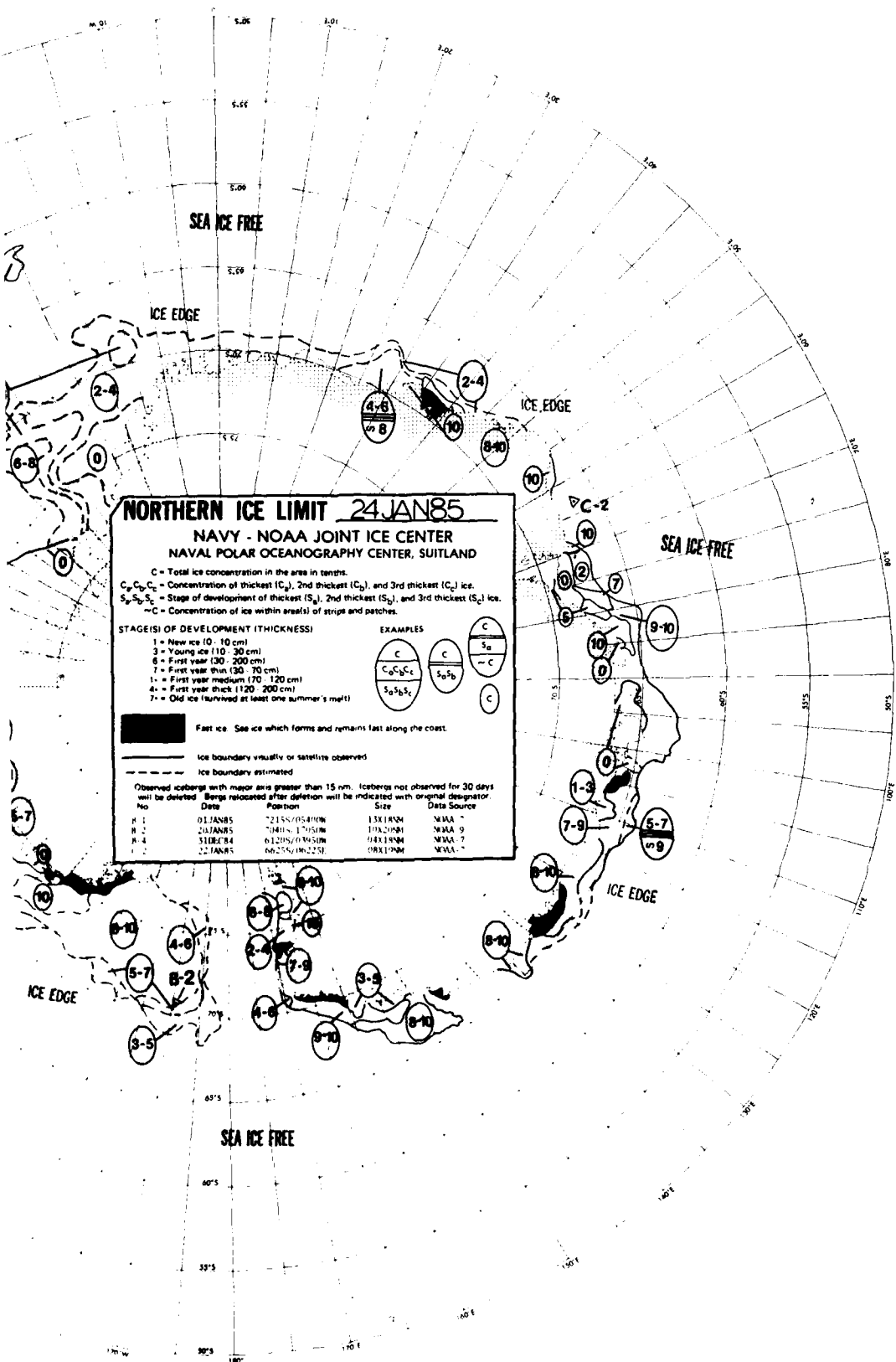
Ice boundary estimated

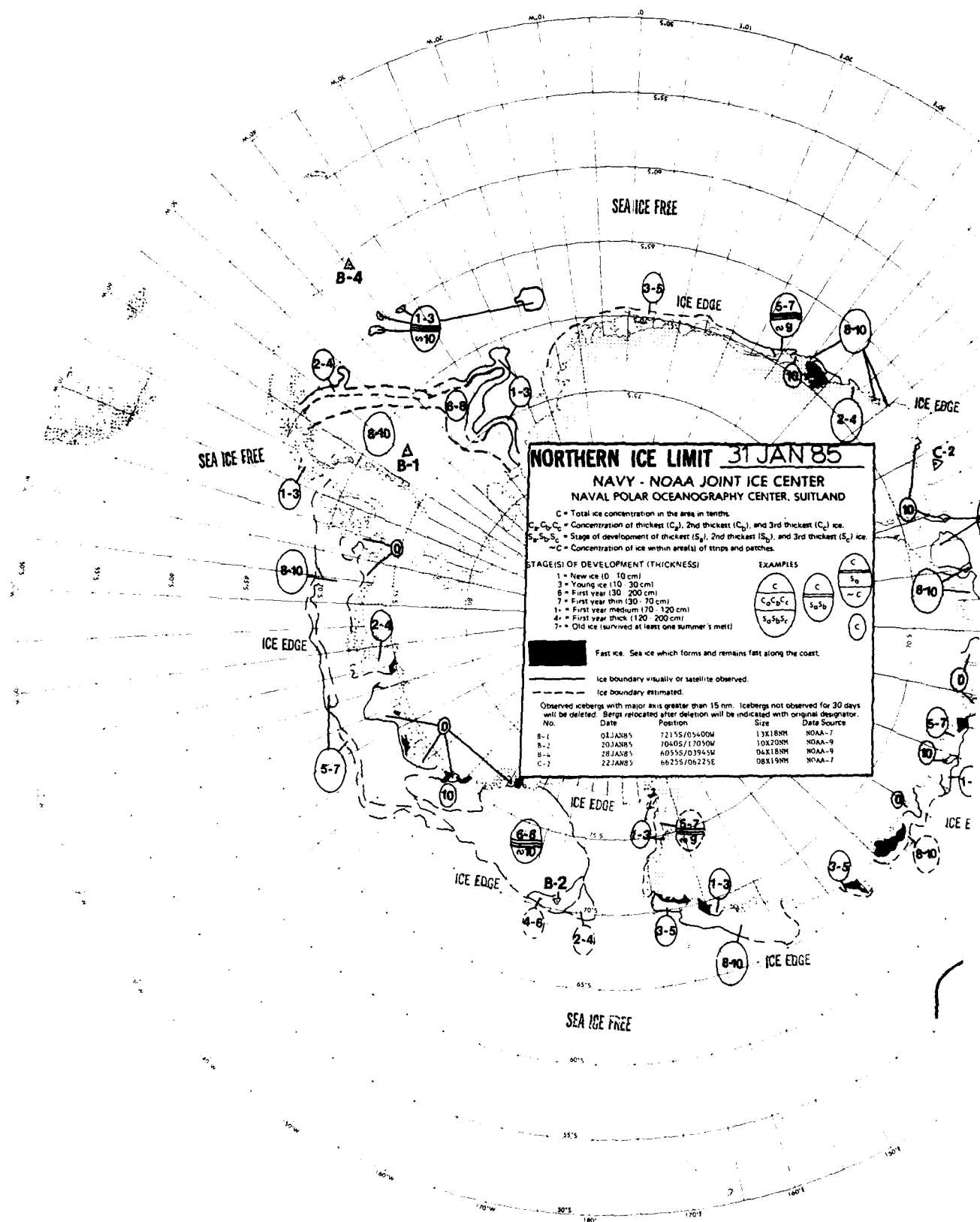
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berms relocated after deletion will be indicated with original designator.

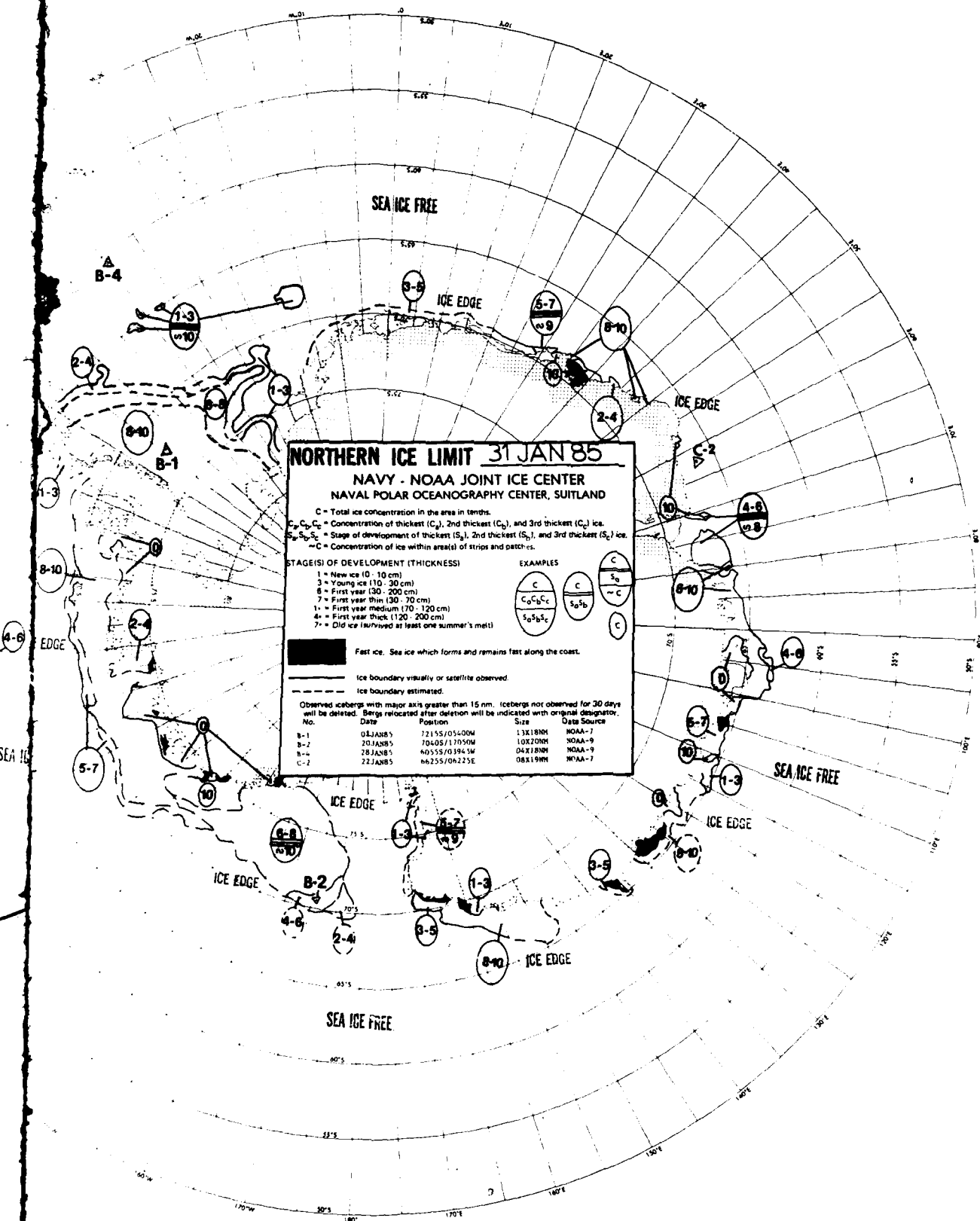
No.	Date	Position	Size	Data Source
1	17 JAN 85	66° 15' N 156° 15' W	1 X 1 NM	WVRS
2	17 JAN 85	66° 15' N 156° 15' W	1 X 1 NM	WVRS
3	17 JAN 85	66° 15' N 156° 15' W	1 X 1 NM	WVRS
4	17 JAN 85	66° 15' N 156° 15' W	1 X 1 NM	WVRS
5	17 JAN 85	66° 15' N 156° 15' W	1 X 1 NM	WVRS

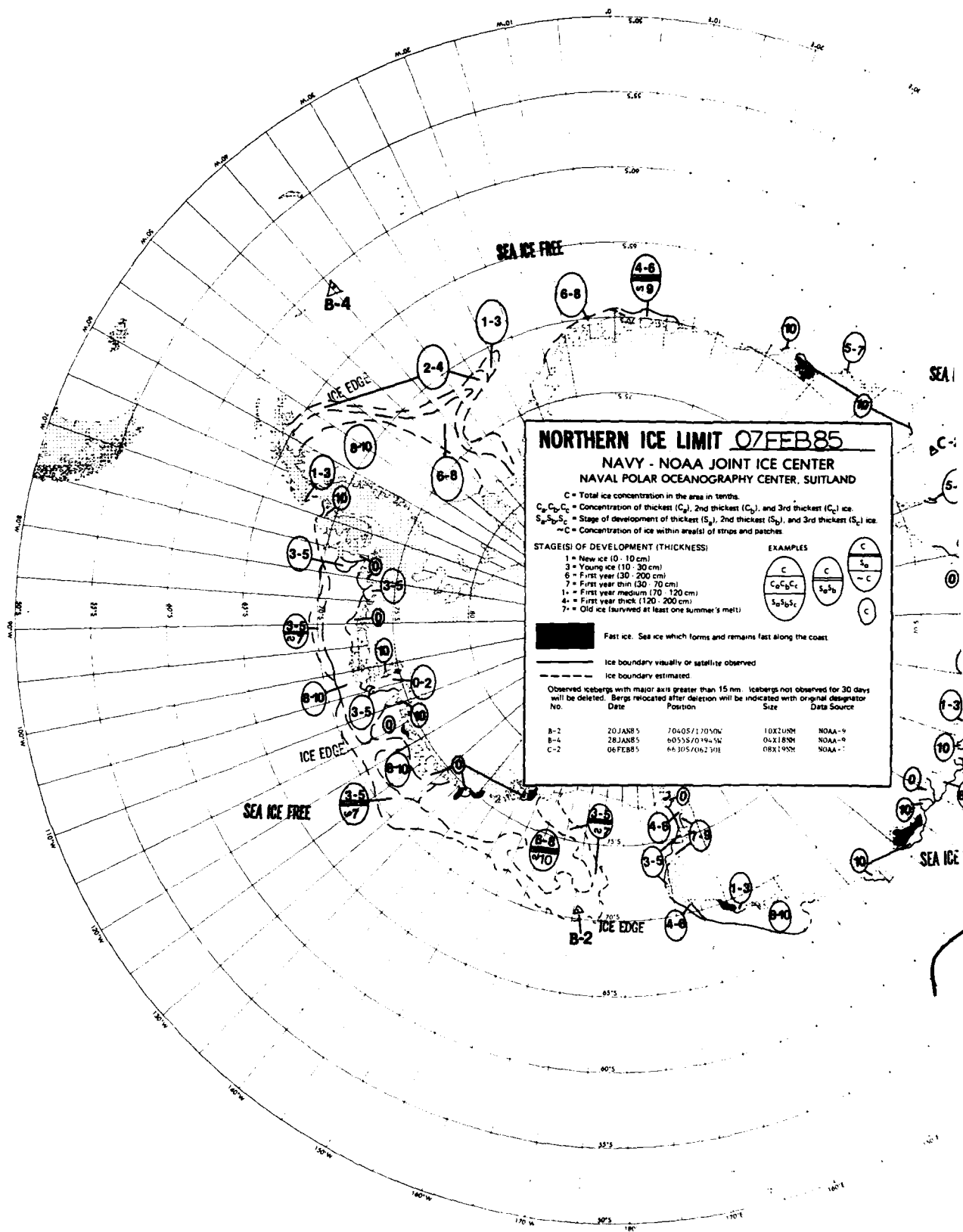
SEA ICE FREE











SEA ICE FREE

SEA ICE FREE

NORTHERN ICE LIMIT 07 FEB 85

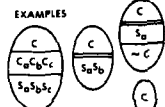
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
C₁C₂C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁S₂S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
~C = Concentration of ice within areas of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES



Fast ice. Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed

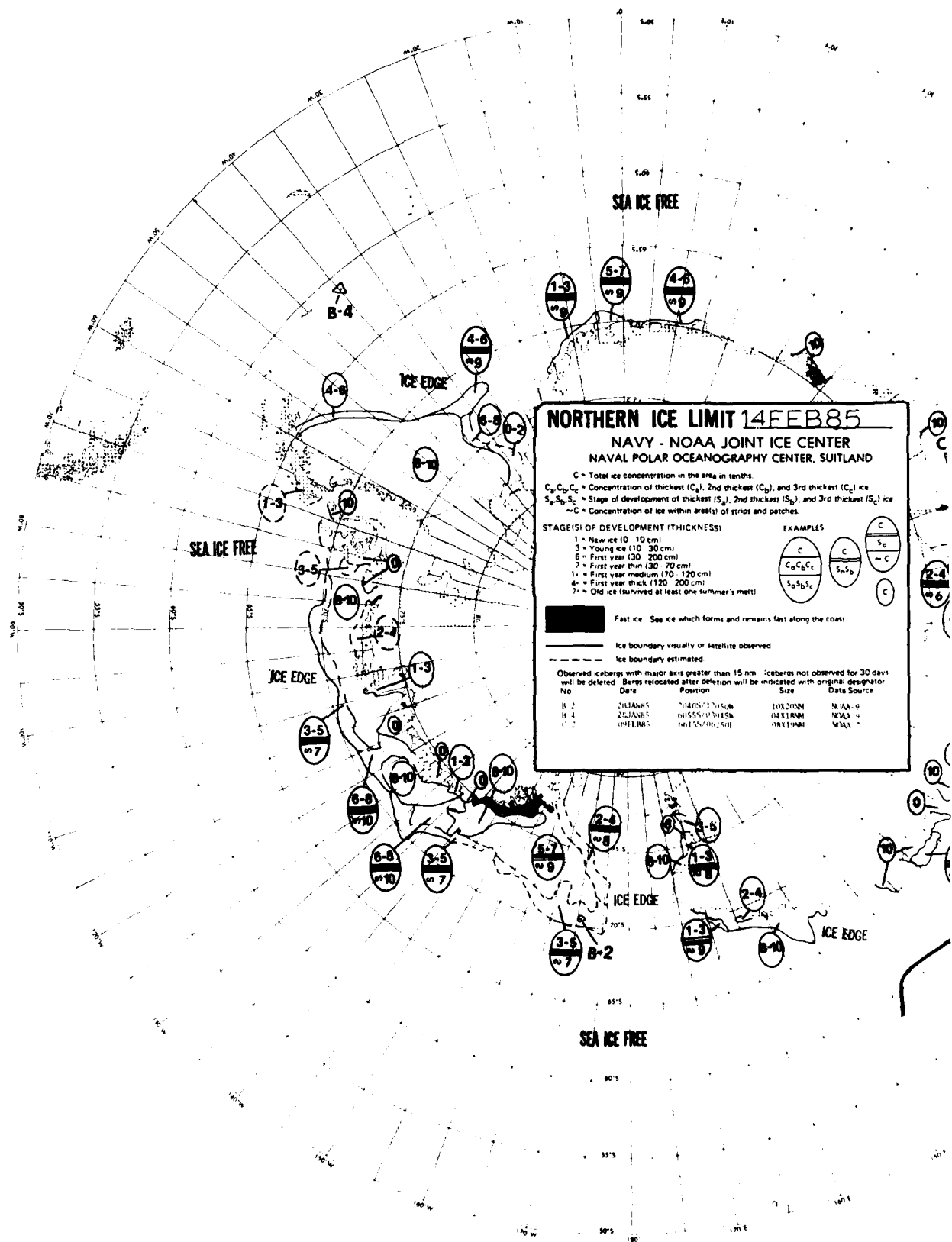
Ice boundary estimated

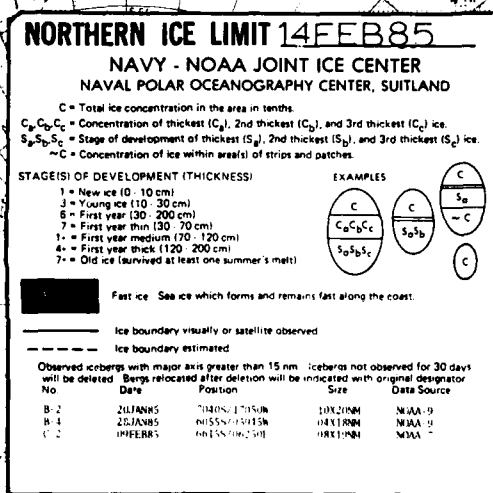
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

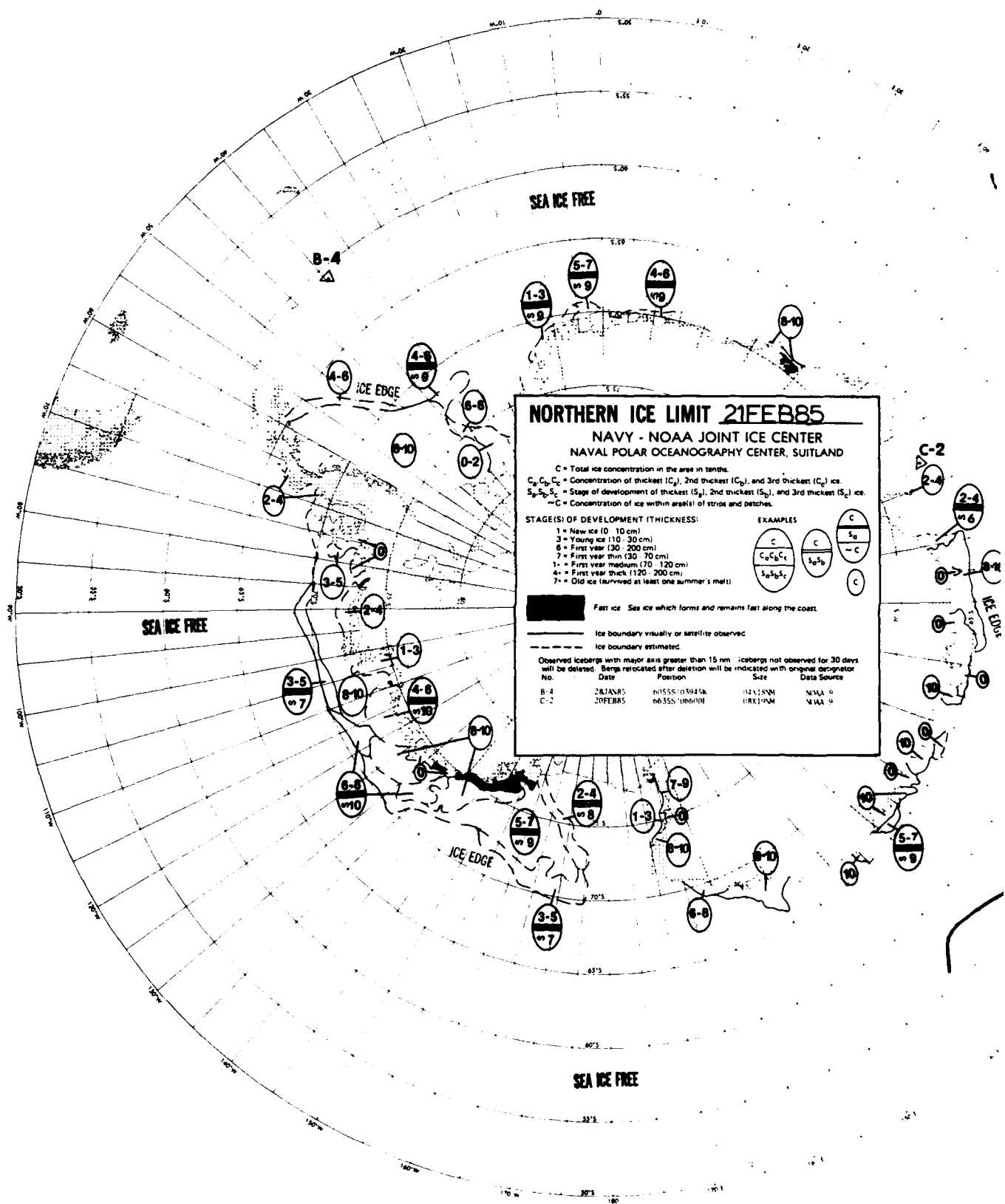
No.	Date	Position	Size	Data Source
B-2	20 JAN 85	70405/17050N	10X20NM	NOAA-4
B-4	28 JAN 85	60555/03945W	04X18NM	NOAA-9
C-2	06 FEB 85	66305/06230E	08X19NM	NOAA-1

B-2

SEA ICE FREE







SEA ICE FREE

NORTHERN ICE LIMIT 21 FEB 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
-C = Concentration of ice within area(s) of stripe and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (10-100 cm)
- 2 = Young ice (100-200 cm)
- 3 = First year (200-300 cm)
- 4 = First year thin (300-400 cm)
- 5 = First year medium (400-500 cm)
- 6 = First year thick (500-600 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES



Fast ice - See ice which forms and remains fast along the coast.

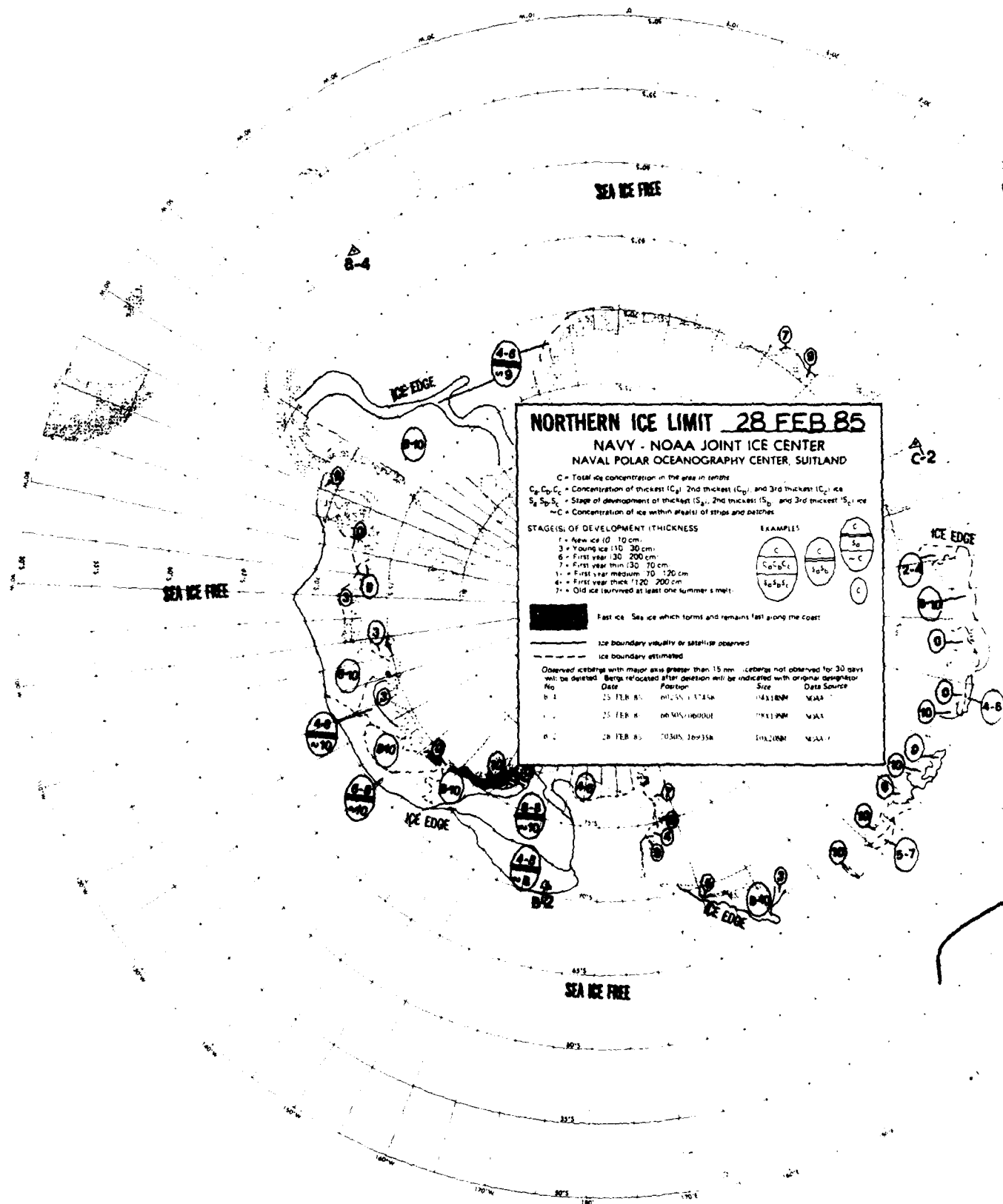
Ice boundary visually or satellite observed
Ice boundary estimated

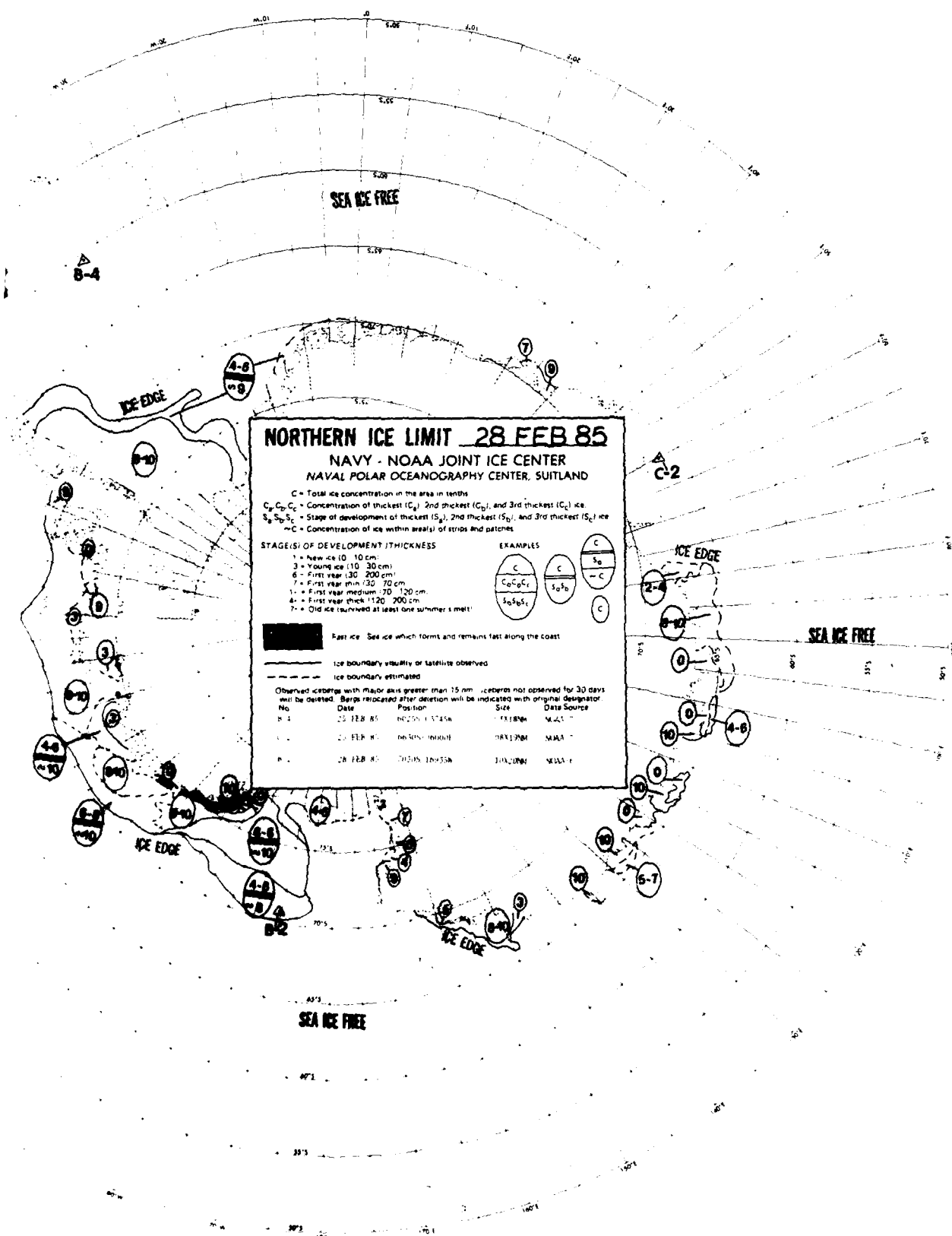
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

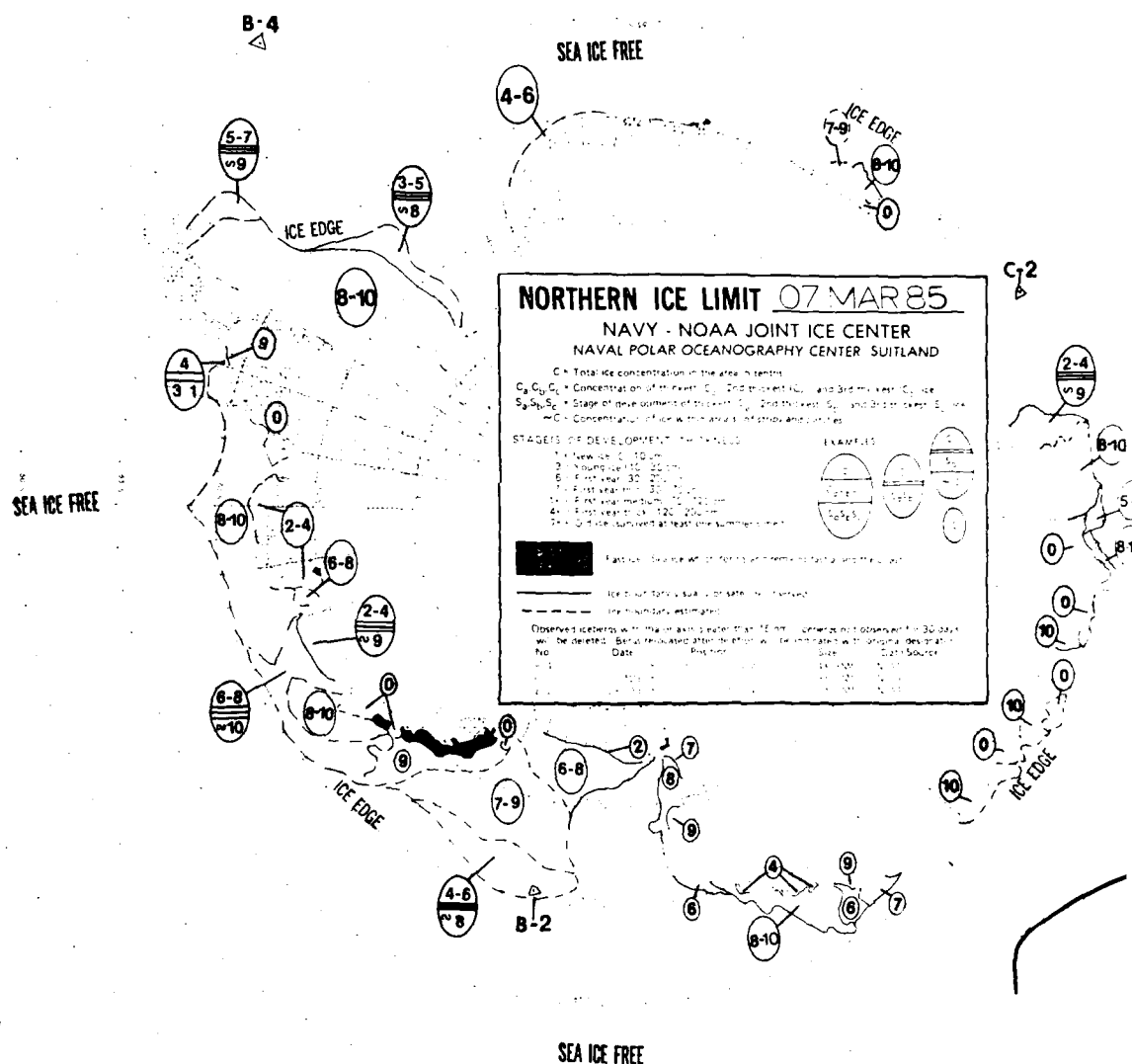
No.	Date	Position	Size	Data Source
B-1	28 JAN 85	60°55N 154°58W	32X11 NM	NMAA
C-2	20 FEB 85	66°55N 106°00W	08X12 NM	NMAA

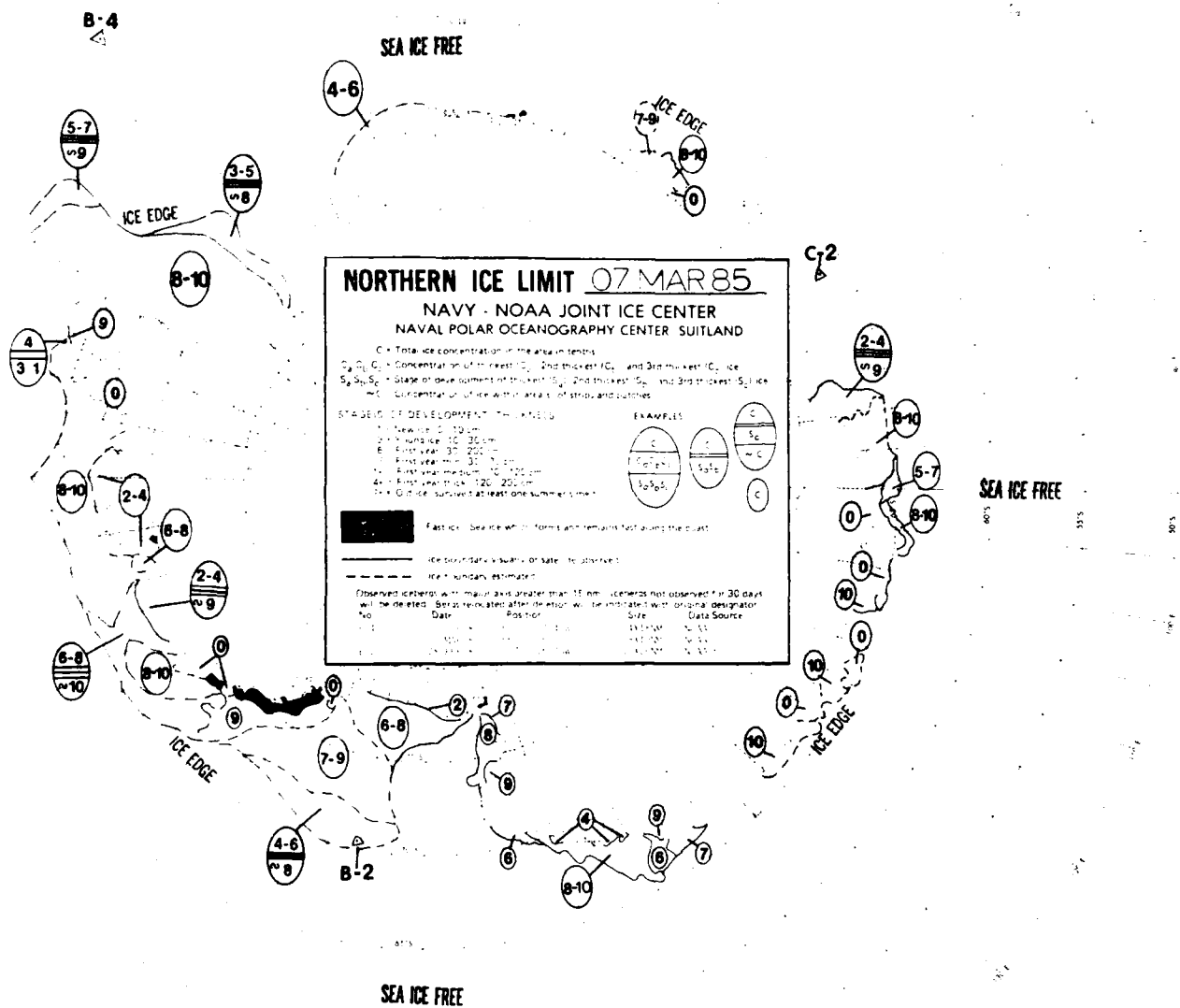
SEA ICE FREE

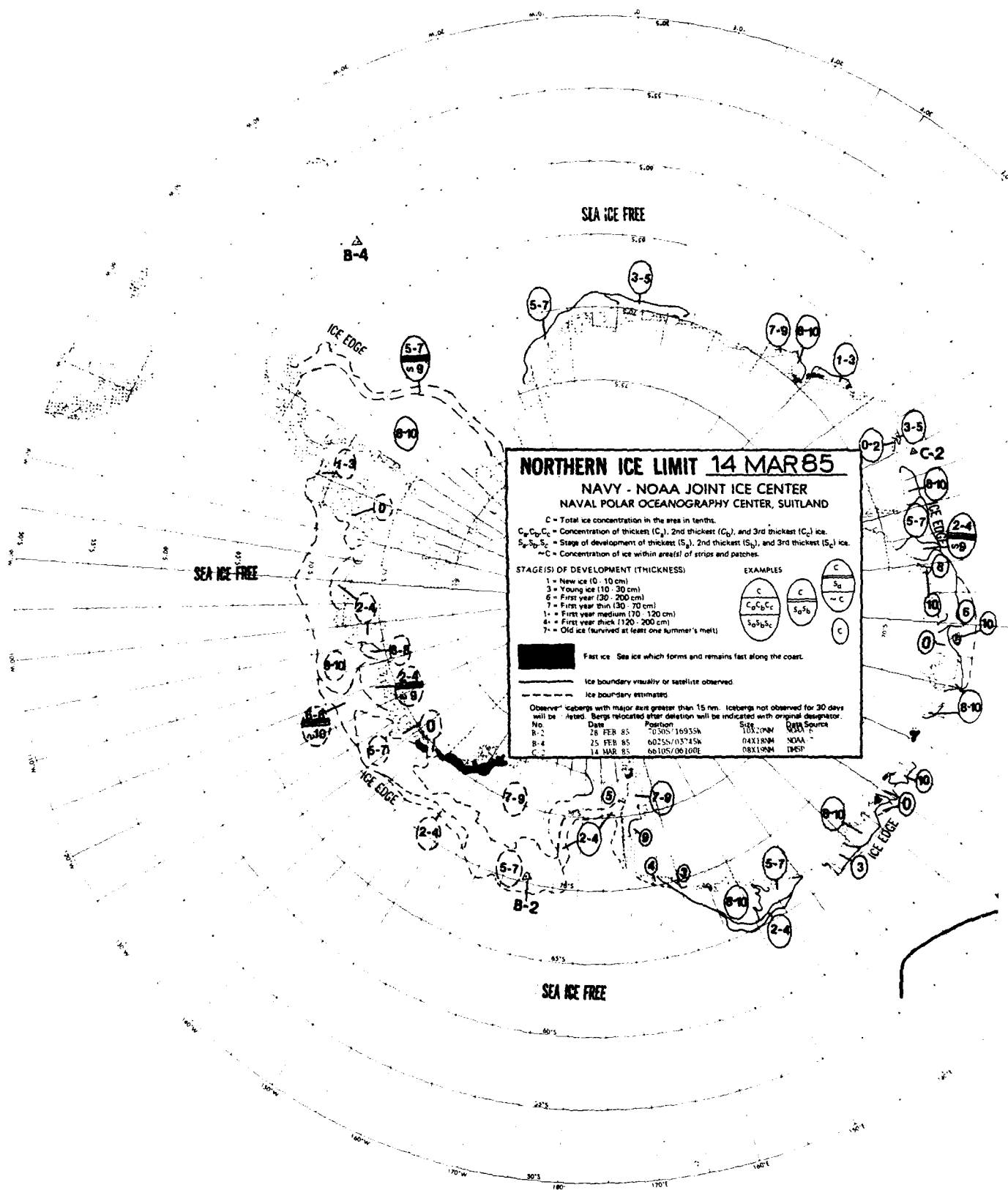
SEA ICE FREE

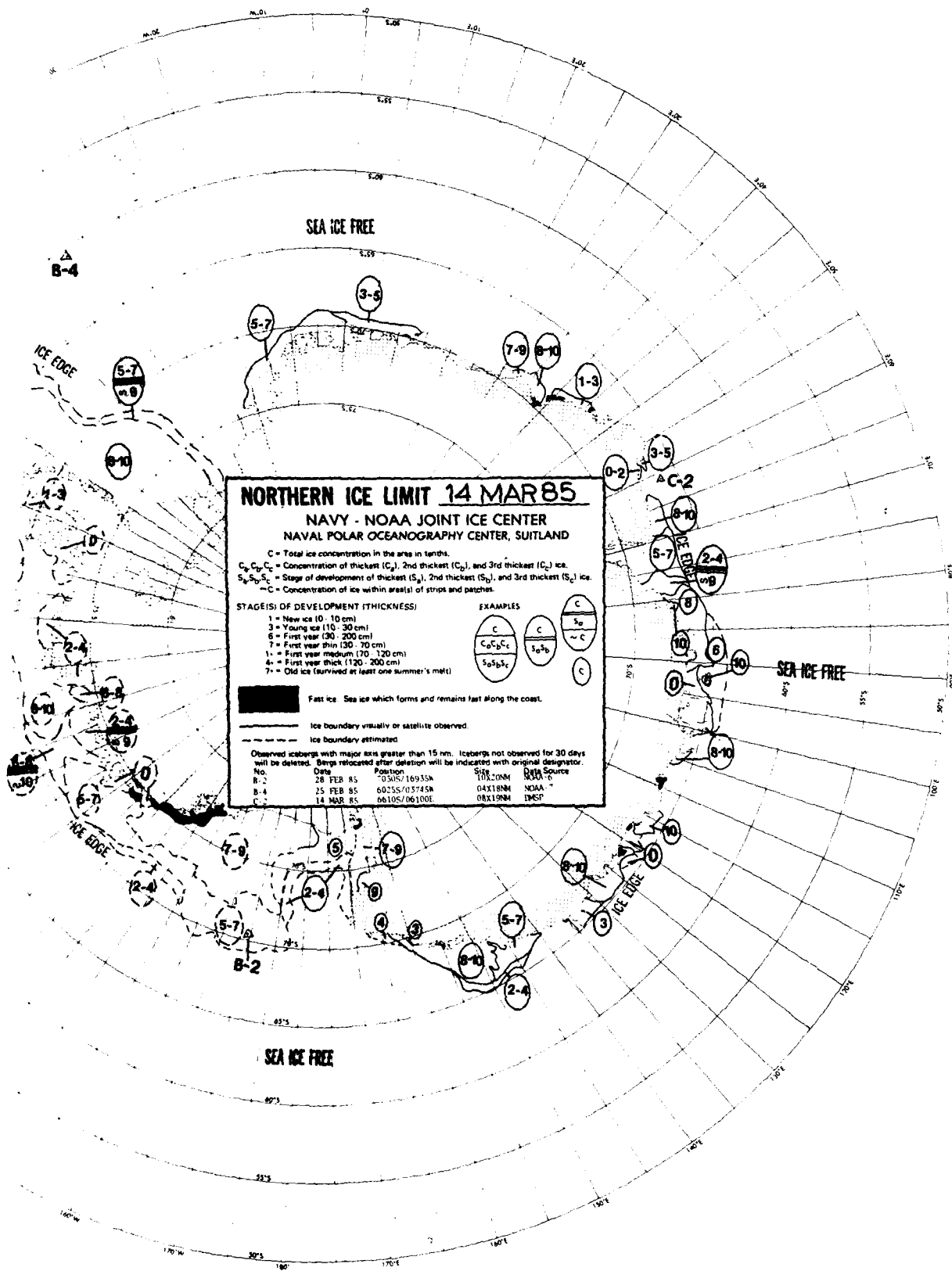


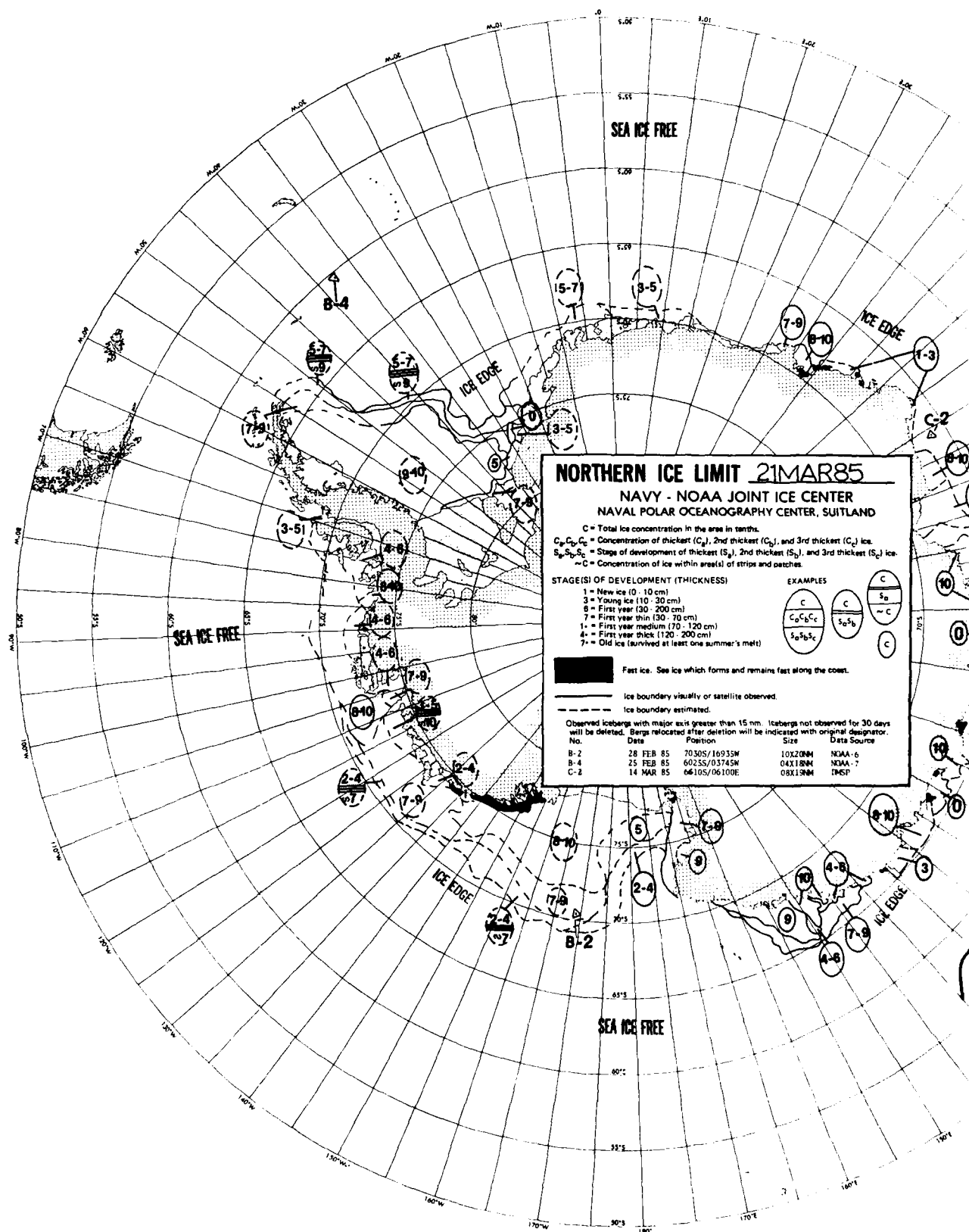


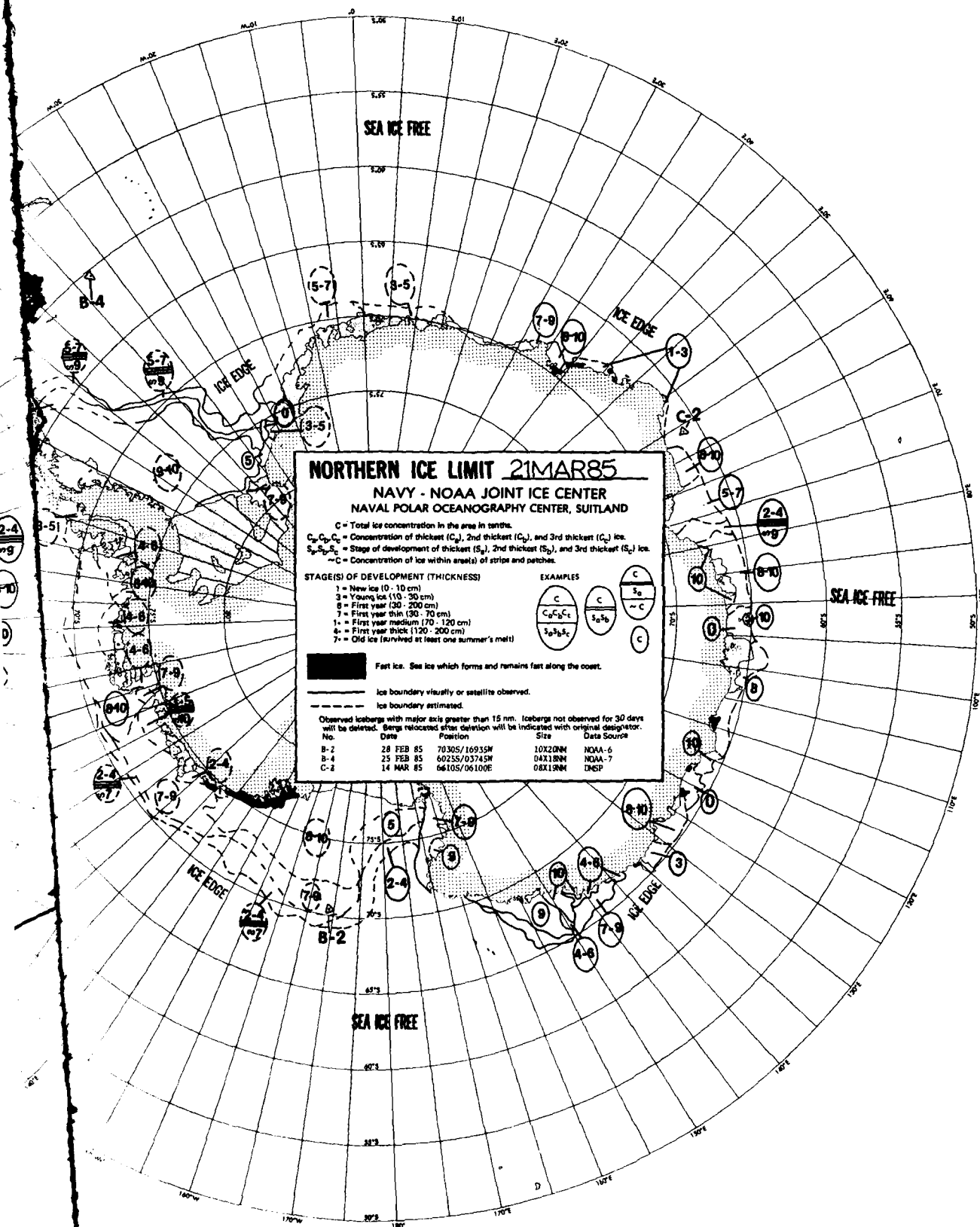


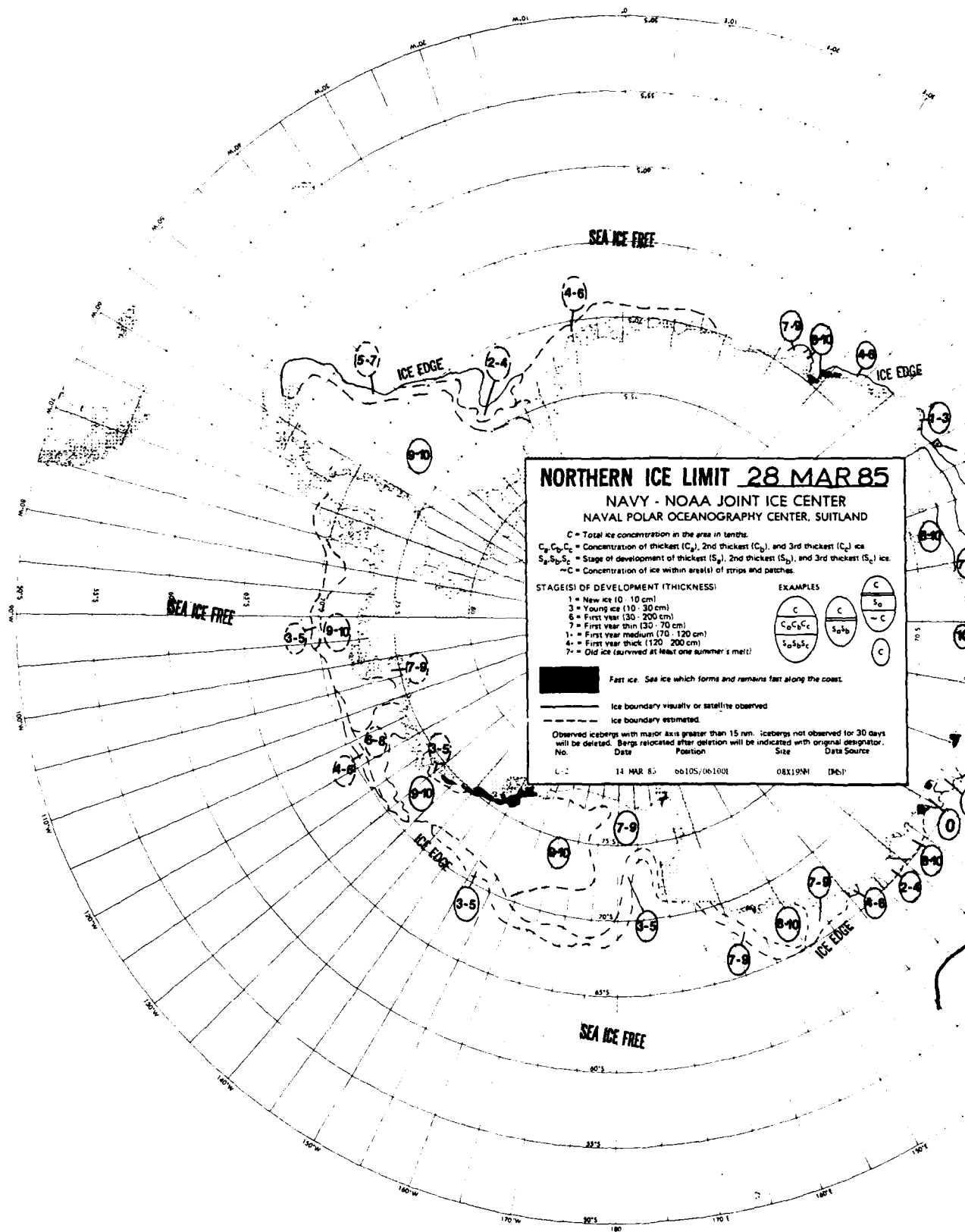












NORTHERN ICE LIMIT 28 MAR 85

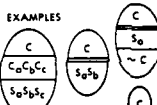
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
C₁C₂C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁S₂S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
-C = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (10 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES



Fast ice. Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed
Ice boundary estimated.

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
C-2	14 MAR 85	66105/06100E	08X19NM	DMSP

SEA ICE FREE

SEA ICE FREE

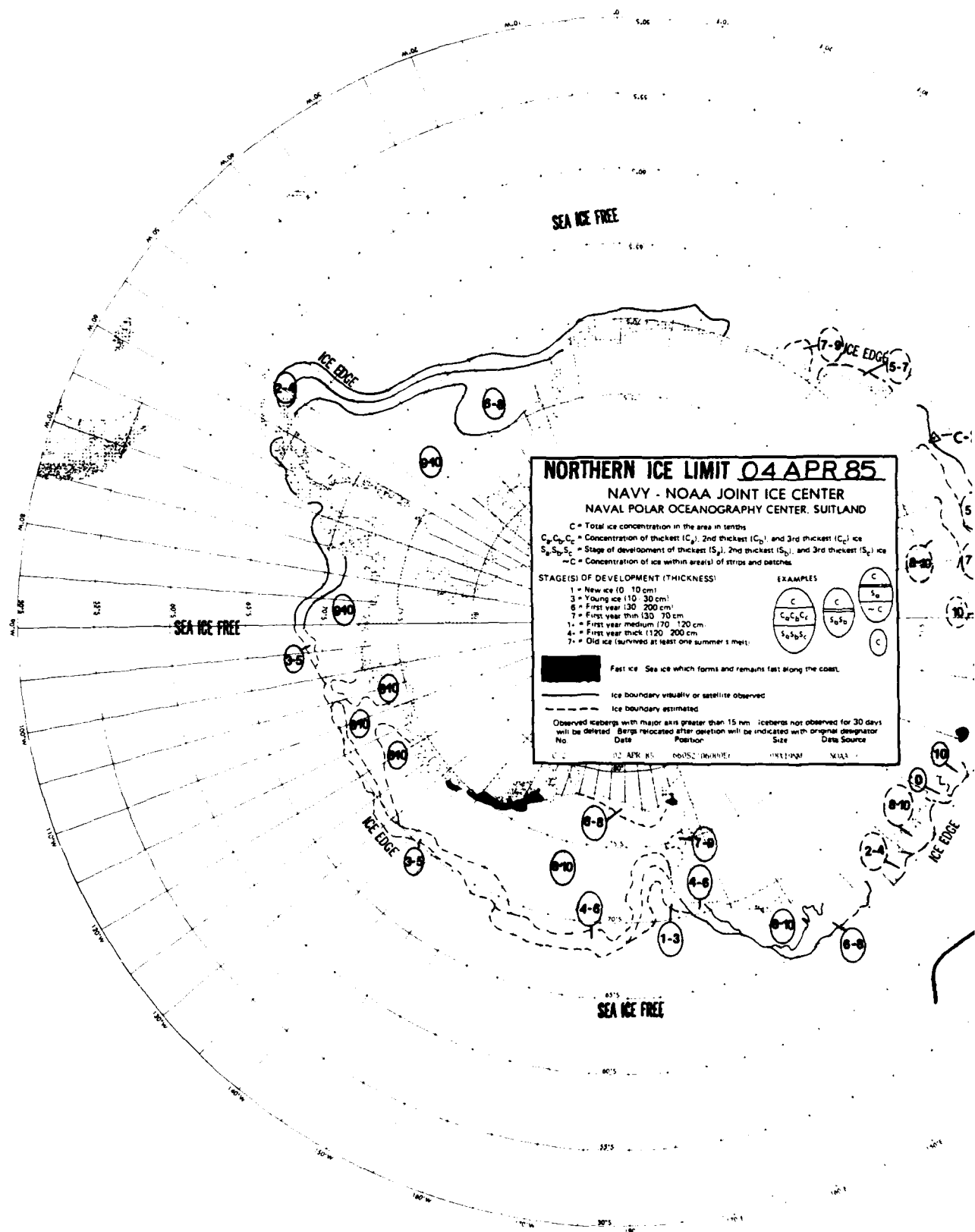
SEA ICE FREE

ICE EDGE

ICE EDGE

ICE EDGE

ICE EDGE



SEA ICE FREE

NORTHERN ICE LIMIT 04 APR 85

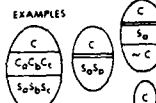
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
C₁ C₂ C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice
S₁ S₂ S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice
-C = Concentration of ice within areas of strips and patches

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1+ = First year medium (70 - 120 cm)
- 4+ = First year thick (120 - 200 cm)
- 7+ = Old ice (survived at least one summer's melt)

EXAMPLES



Fast ice: Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed

Ice boundary estimated

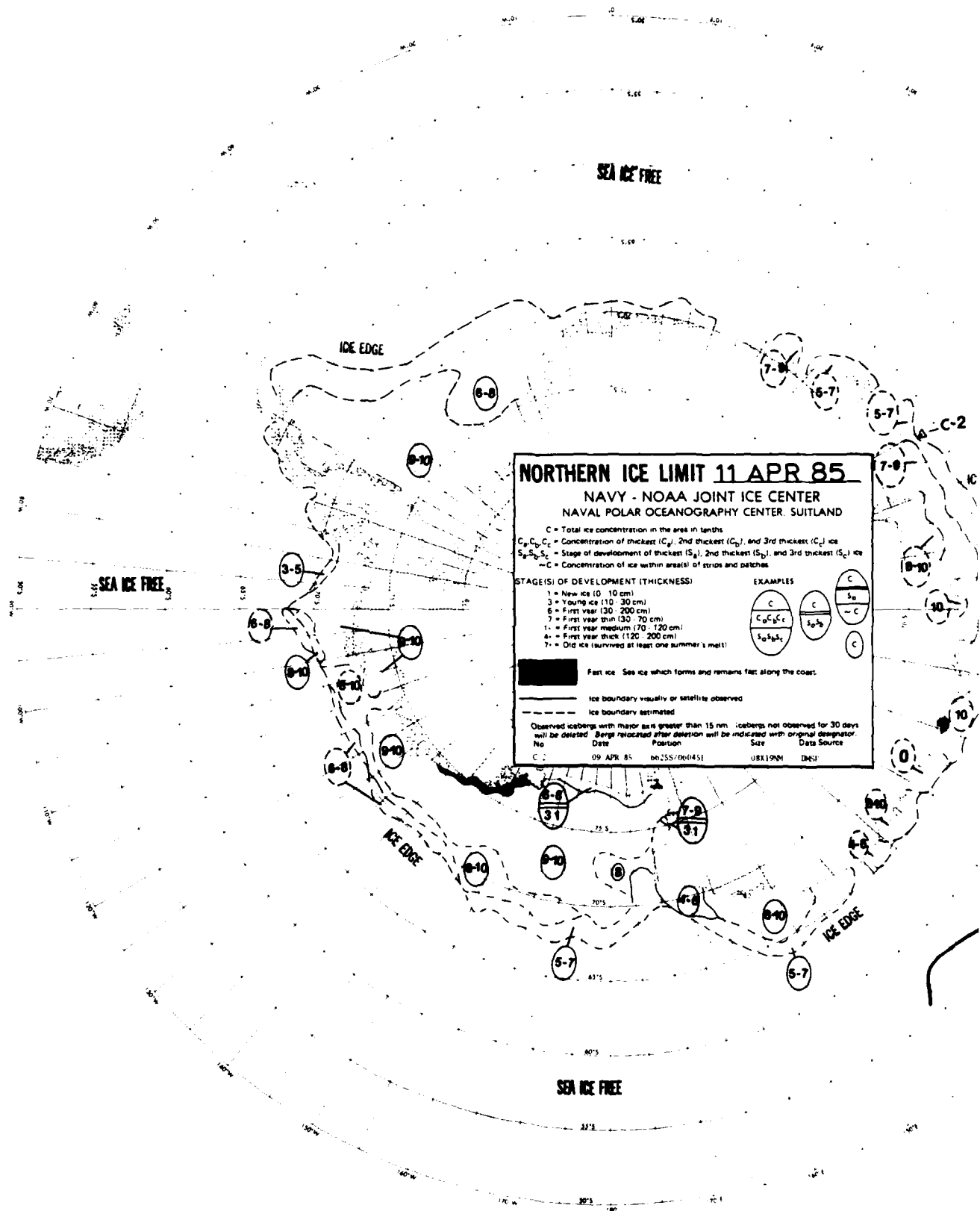
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

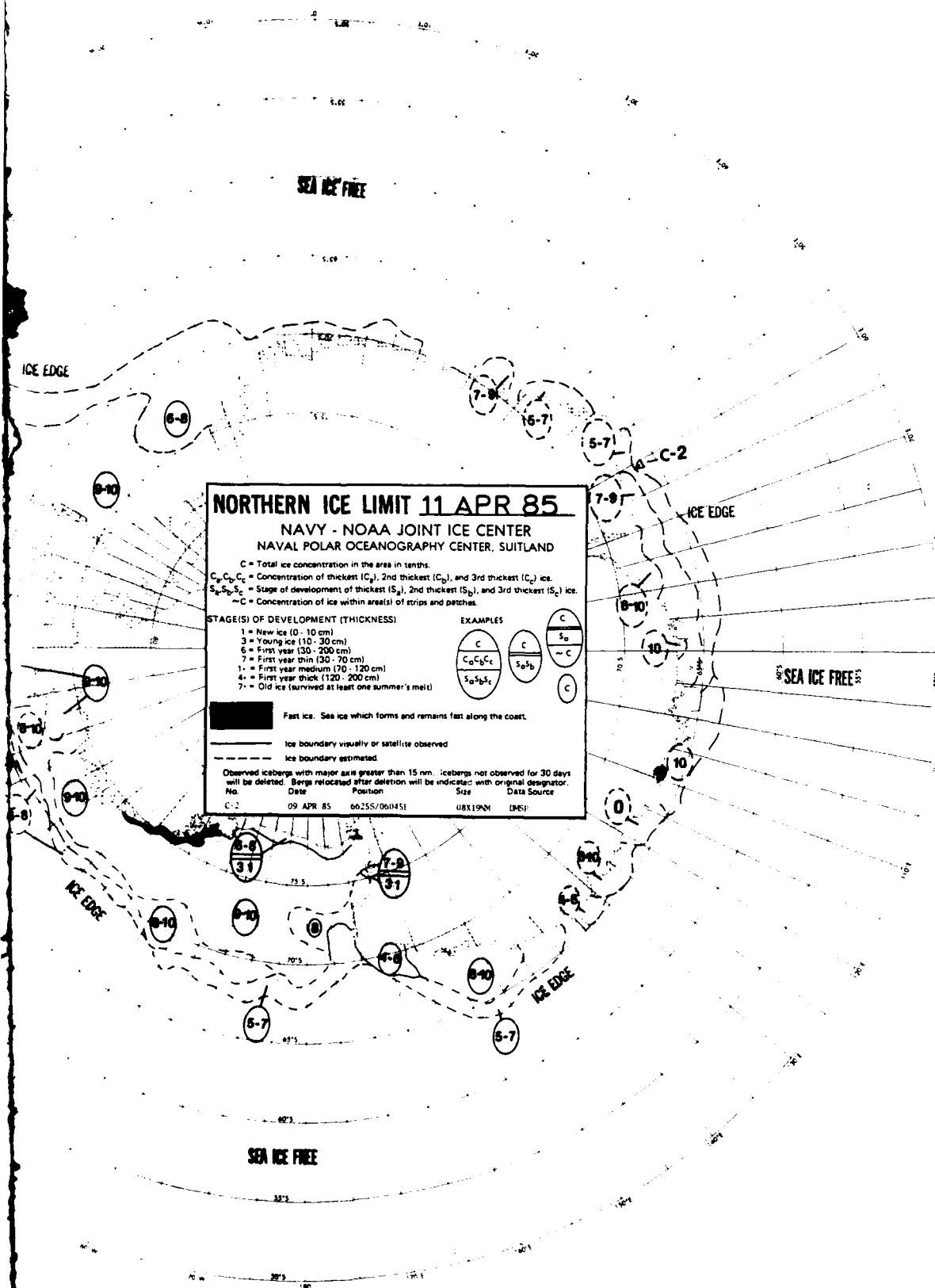
No. Date Position Size Data Source

04 APR 85 66052 (00000000) (00000000) (00000000)

SEA ICE FREE

SEA ICE FREE





SEA ICE FREE

ICE EDGE

ICE EDGE

C-2

NORTHERN ICE LIMIT 18 APR 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C-1 Total ice concentration in the area in tenths
C-2, C-3 Concentration of thick ice (30% or more) in the area in tenths
C-4, C-5 Stage of development of ice in the area in tenths
C-6 Concentration of ice within areas of high ice mobility

STAGES OF DEVELOPMENT THICKNESS

- 1. New ice 0-10 cm
- 2. First year 10-30 cm
- 3. First year 30-200 cm
- 4. First year 200-300 cm
- 5. First year 300-400 cm
- 6. First year 400-500 cm
- 7. First year 500-600 cm
- 8. First year 600-700 cm
- 9. First year 700-800 cm
- 10. First year 800-900 cm
- 11. First year 900-1000 cm
- 12. First year 1000-1100 cm
- 13. First year 1100-1200 cm
- 14. First year 1200-1300 cm
- 15. First year 1300-1400 cm
- 16. First year 1400-1500 cm
- 17. First year 1500-1600 cm
- 18. First year 1600-1700 cm
- 19. First year 1700-1800 cm
- 20. First year 1800-1900 cm
- 21. First year 1900-2000 cm
- 22. First year 2000-2100 cm
- 23. First year 2100-2200 cm
- 24. First year 2200-2300 cm
- 25. First year 2300-2400 cm
- 26. First year 2400-2500 cm
- 27. First year 2500-2600 cm
- 28. First year 2600-2700 cm
- 29. First year 2700-2800 cm
- 30. First year 2800-2900 cm
- 31. First year 2900-3000 cm
- 32. First year 3000-3100 cm
- 33. First year 3100-3200 cm
- 34. First year 3200-3300 cm
- 35. First year 3300-3400 cm
- 36. First year 3400-3500 cm
- 37. First year 3500-3600 cm
- 38. First year 3600-3700 cm
- 39. First year 3700-3800 cm
- 40. First year 3800-3900 cm
- 41. First year 3900-4000 cm
- 42. First year 4000-4100 cm
- 43. First year 4100-4200 cm
- 44. First year 4200-4300 cm
- 45. First year 4300-4400 cm
- 46. First year 4400-4500 cm
- 47. First year 4500-4600 cm
- 48. First year 4600-4700 cm
- 49. First year 4700-4800 cm
- 50. First year 4800-4900 cm
- 51. First year 4900-5000 cm
- 52. First year 5000-5100 cm
- 53. First year 5100-5200 cm
- 54. First year 5200-5300 cm
- 55. First year 5300-5400 cm
- 56. First year 5400-5500 cm
- 57. First year 5500-5600 cm
- 58. First year 5600-5700 cm
- 59. First year 5700-5800 cm
- 60. First year 5800-5900 cm
- 61. First year 5900-6000 cm
- 62. First year 6000-6100 cm
- 63. First year 6100-6200 cm
- 64. First year 6200-6300 cm
- 65. First year 6300-6400 cm
- 66. First year 6400-6500 cm
- 67. First year 6500-6600 cm
- 68. First year 6600-6700 cm
- 69. First year 6700-6800 cm
- 70. First year 6800-6900 cm
- 71. First year 6900-7000 cm
- 72. First year 7000-7100 cm
- 73. First year 7100-7200 cm
- 74. First year 7200-7300 cm
- 75. First year 7300-7400 cm
- 76. First year 7400-7500 cm
- 77. First year 7500-7600 cm
- 78. First year 7600-7700 cm
- 79. First year 7700-7800 cm
- 80. First year 7800-7900 cm
- 81. First year 7900-8000 cm
- 82. First year 8000-8100 cm
- 83. First year 8100-8200 cm
- 84. First year 8200-8300 cm
- 85. First year 8300-8400 cm
- 86. First year 8400-8500 cm
- 87. First year 8500-8600 cm
- 88. First year 8600-8700 cm
- 89. First year 8700-8800 cm
- 90. First year 8800-8900 cm
- 91. First year 8900-9000 cm
- 92. First year 9000-9100 cm
- 93. First year 9100-9200 cm
- 94. First year 9200-9300 cm
- 95. First year 9300-9400 cm
- 96. First year 9400-9500 cm
- 97. First year 9500-9600 cm
- 98. First year 9600-9700 cm
- 99. First year 9700-9800 cm
- 100. First year 9800-9900 cm
- 101. First year 9900-10000 cm

Fast ice - sea ice which forms a continuous sheet

Ice boundary - visible line between ice and open water

Intermed icebergs with maximum area greater than 1000 sq m will be detected. Berge indicated after location will be given with date and time.

Date: _____ Area: _____

Time: _____

Observer: _____

Remarks: _____

SEA ICE FREE

ICE EDGE

ICE EDGE

SEA ICE FREE

SEA ICE FREE

NORTHERN ICE LIMIT 18 APR 85

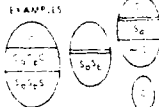
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER SUITLAND

- C = Total ice concentration in the area in tenths
- C_1, C_2, C_3 = Concentration of thickest C_1 , 2nd thickest C_2 , and 3rd thickest C_3 ice
- S_1, S_2, S_3 = St. development of thickest S_1 , 2nd thickest S_2 , and 3rd thickest S_3 ice
- W = Concentration of ice within area's 1st strips and patches

TABLE 1. DEVELOPMENT THICKNESS

- Newice E. 10 cm
- Newice 10-30 cm
- First year 30-200 cm
- First year min 30-70 cm
- First year medium 70-120 cm
- First year thick 120-200 cm
- Old ice - survived at least one winter

61 A.D. 15



Fast ice ice which forms and remains for a long time.

ice boundary visually or safe for fishermen

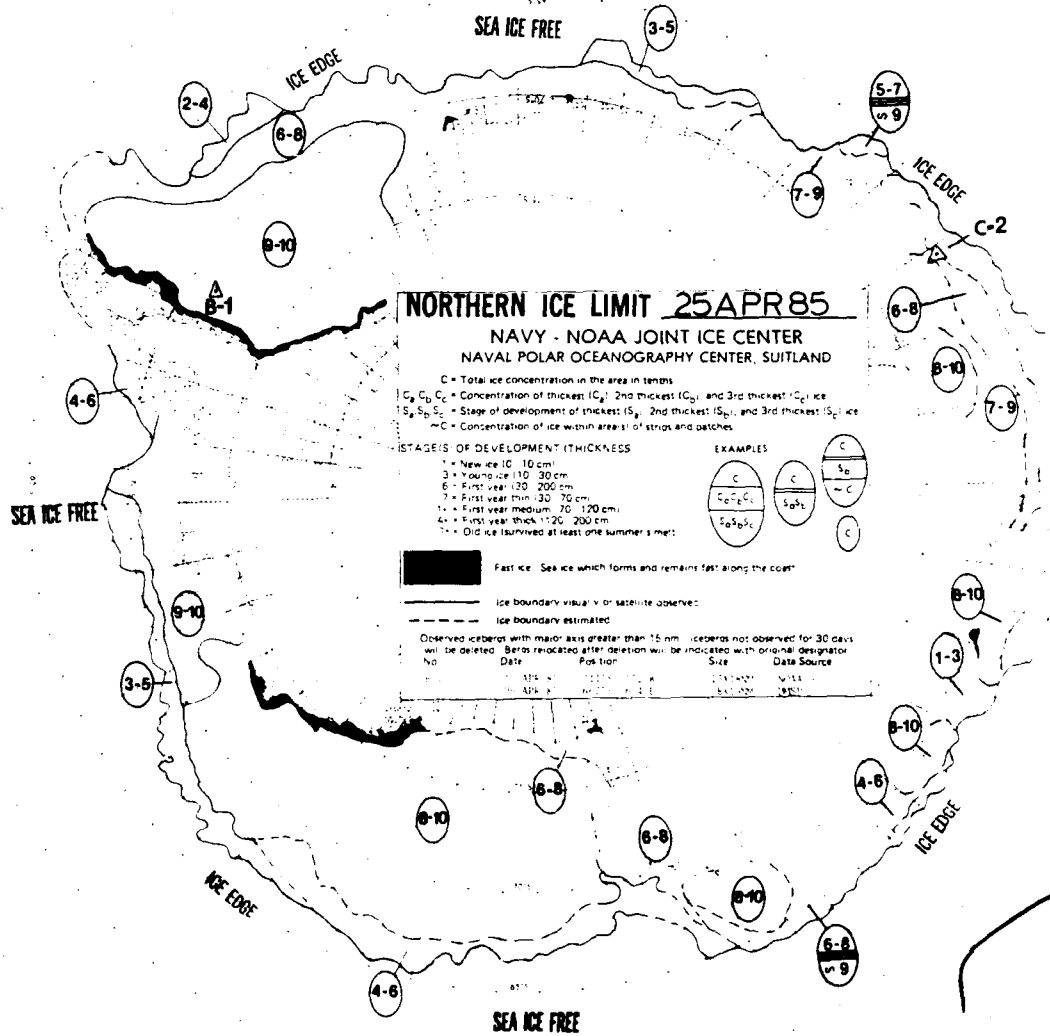
— — — — — (5) Huang's estimate:

* Observed depth with major axis greater than 11 mm. Depth not observed for 31 days.
 * The detected Bergs relocated after detection will be indicated with original designation.

Date	Position	Size	Date Source
------	----------	------	-------------

W. No.	Date	Position	Size	Data Source
1	10/10/50	100' x 100'	100' x 100'	100'
2	10/10/50	100' x 100'	100' x 100'	100'

SEA ICE FREE



NORTHERN ICE LIMIT 25 APR 85

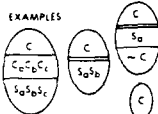
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

- C = Total ice concentration in the area in tenths
- C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice
- S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice
- C = Concentration of ice within area of strips and patches

STAGES OF DEVELOPMENT (THICKNESS)

- 1 = New ice (10-10 cm)
- 2 = Young ice (10-30 cm)
- 3 = First year (30-200 cm)
- 4 = First year thin (30-70 cm)
- 5 = First year medium (70-120 cm)
- 6 = First year thick (120-200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES

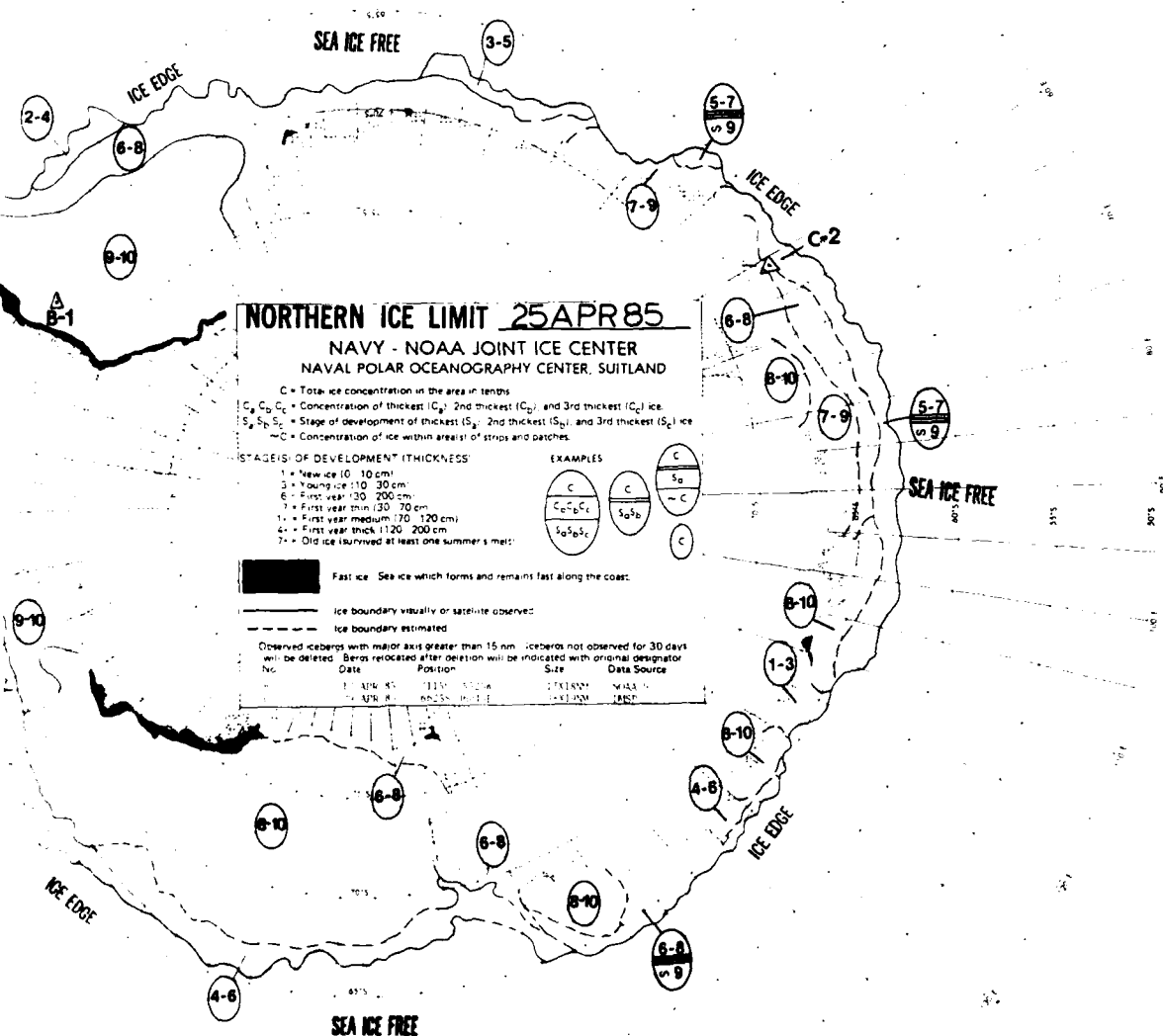


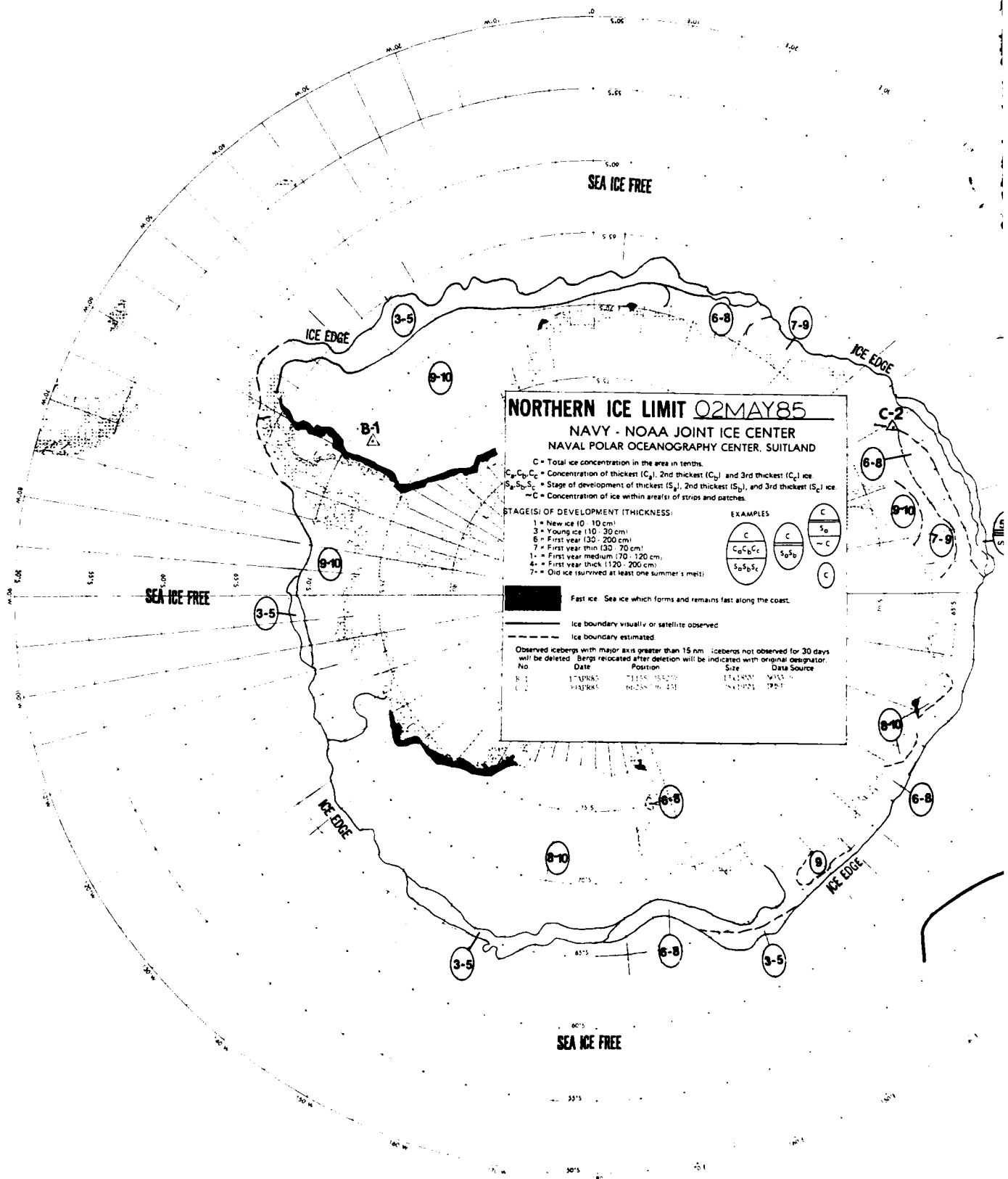
Fast ice: Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed
Ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berms relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
1	APR 85	111° 15' W 72° 15' N	17X18NM	NOAA
2	APR 85	111° 15' W 72° 15' N	17X18NM	NOAA





NORTHERN ICE LIMIT 02MAY85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice.
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 -C = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS):
 1 = New ice (0 - 10 cm)
 3 = Young ice (10 - 30 cm)
 6 = First year thin (30 - 200 cm)
 7 = First year thin (30 - 70 cm)
 1 = First year medium (70 - 120 cm)
 4 = First year thick (120 - 200 cm)
 7 = Old ice (survived at least one summer's melt)

EXAMPLES



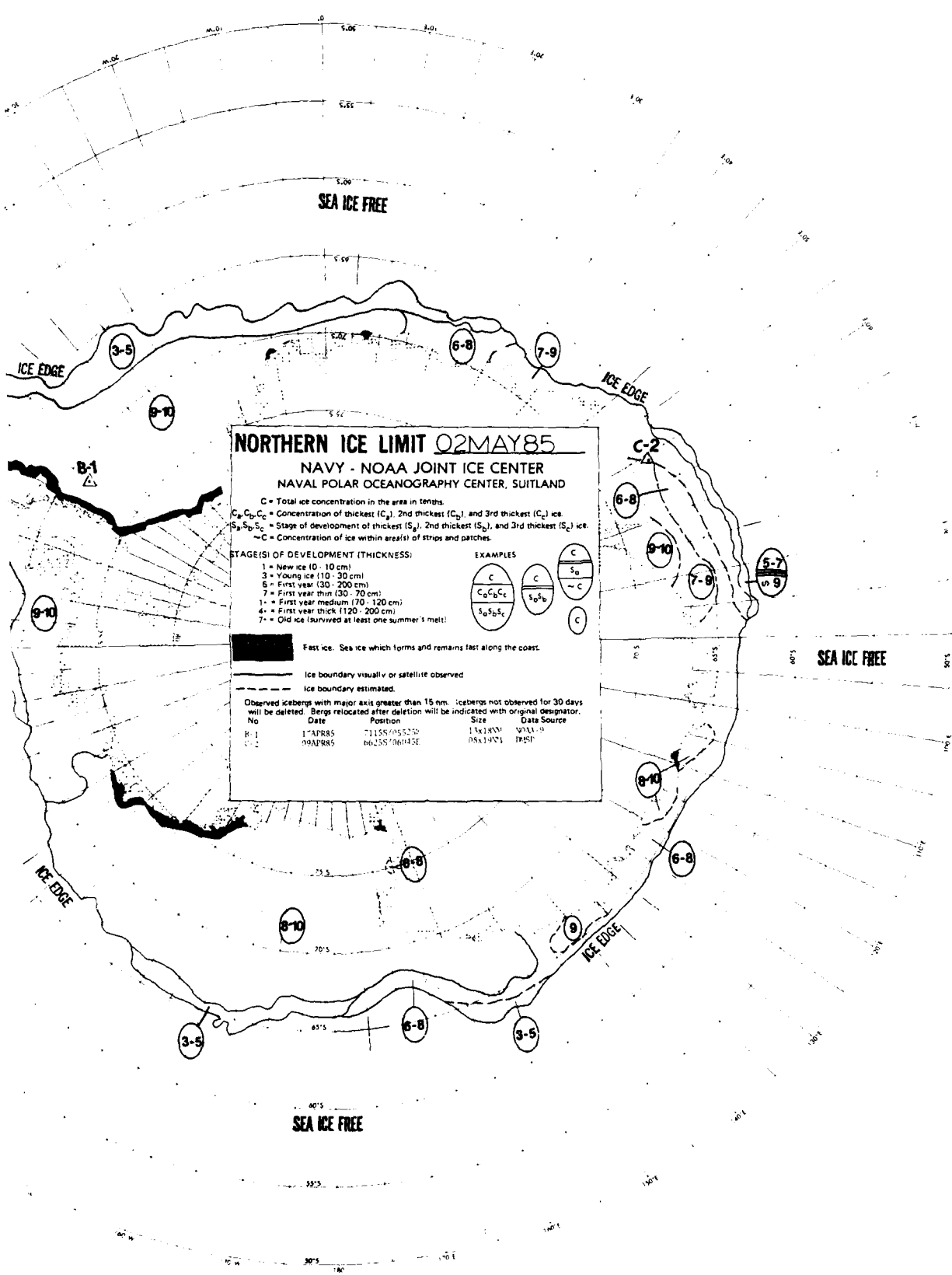
Fast ice. Sea ice which forms and remains fast along the coast.

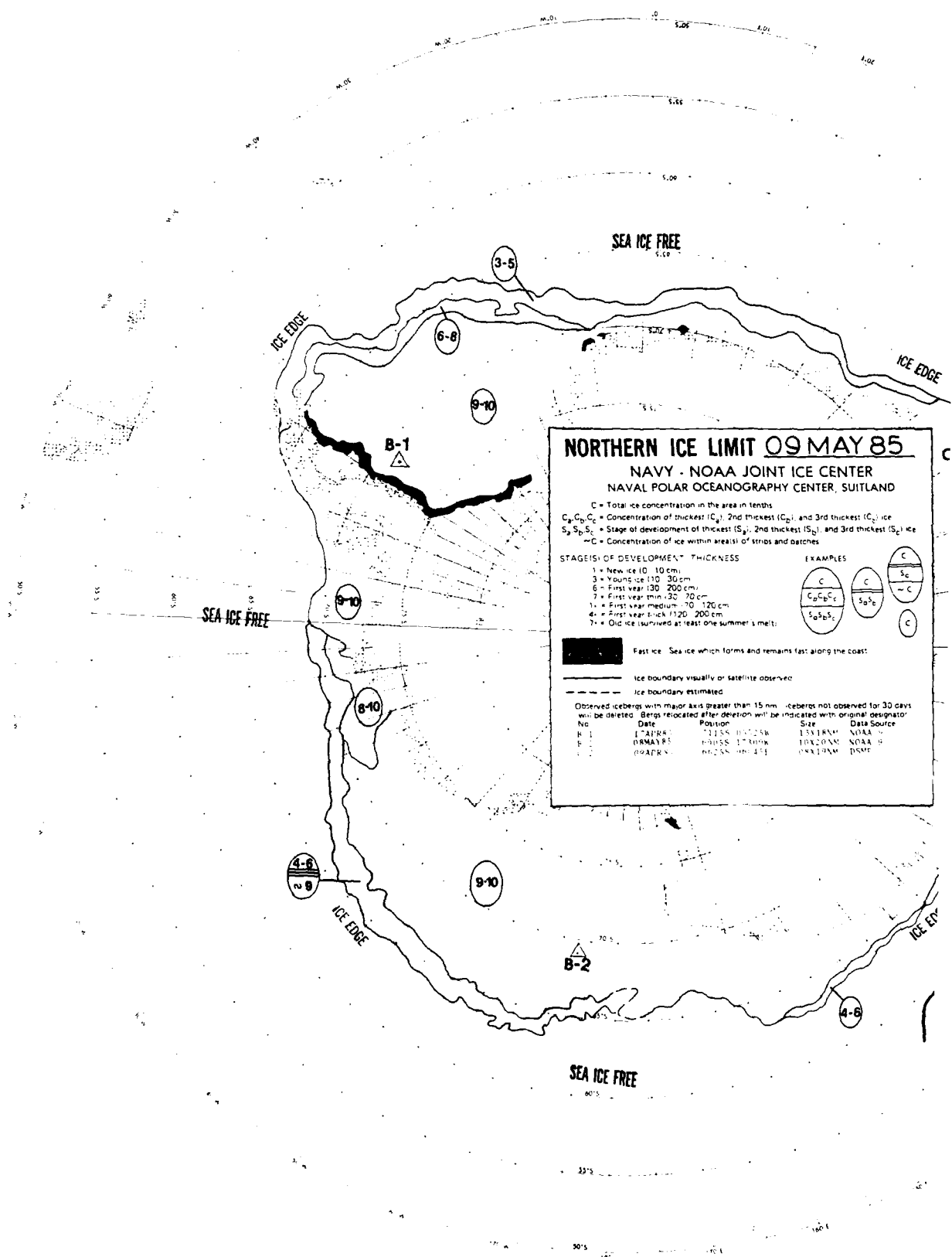
Ice boundary visually or satellite observed

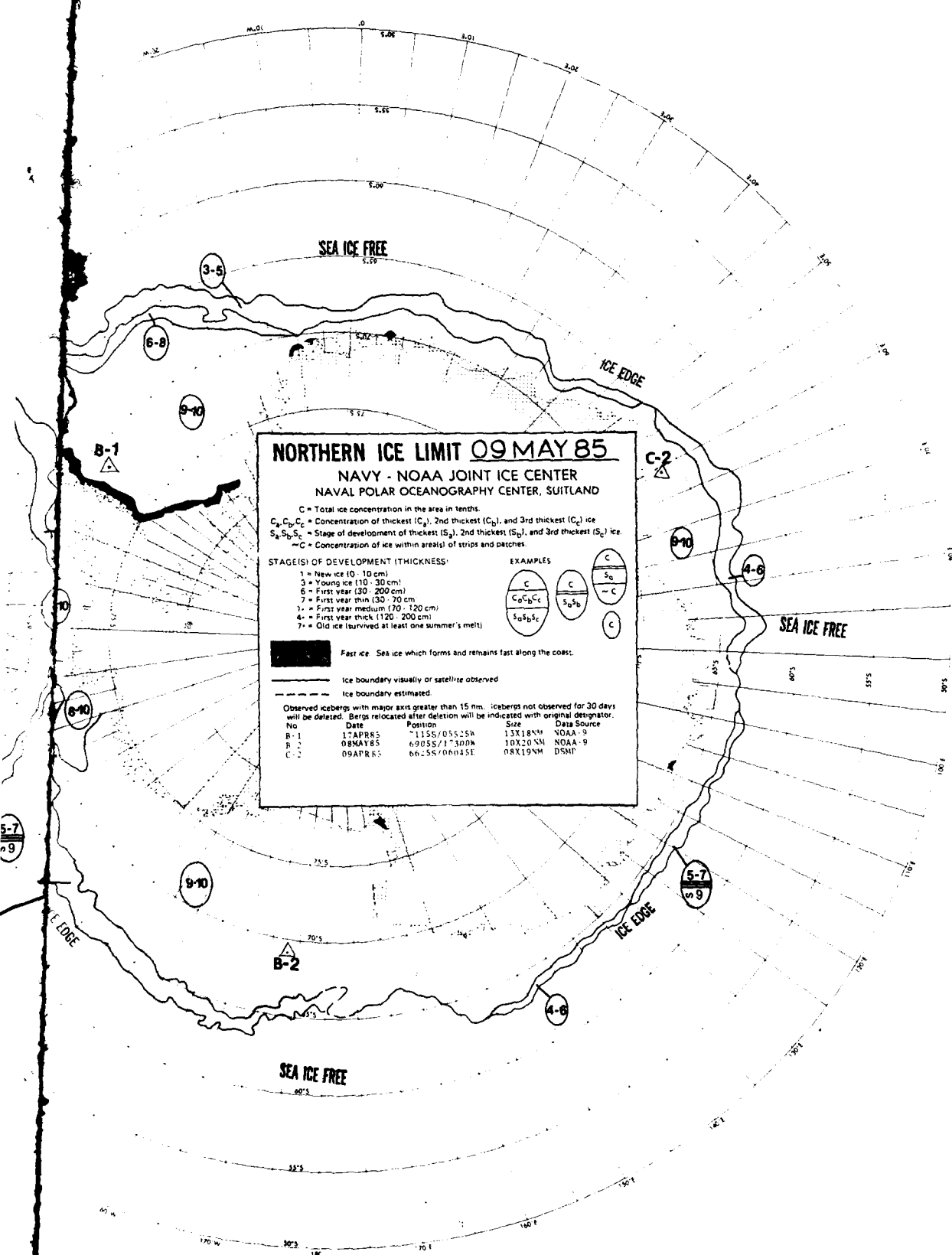
Ice boundary estimated.

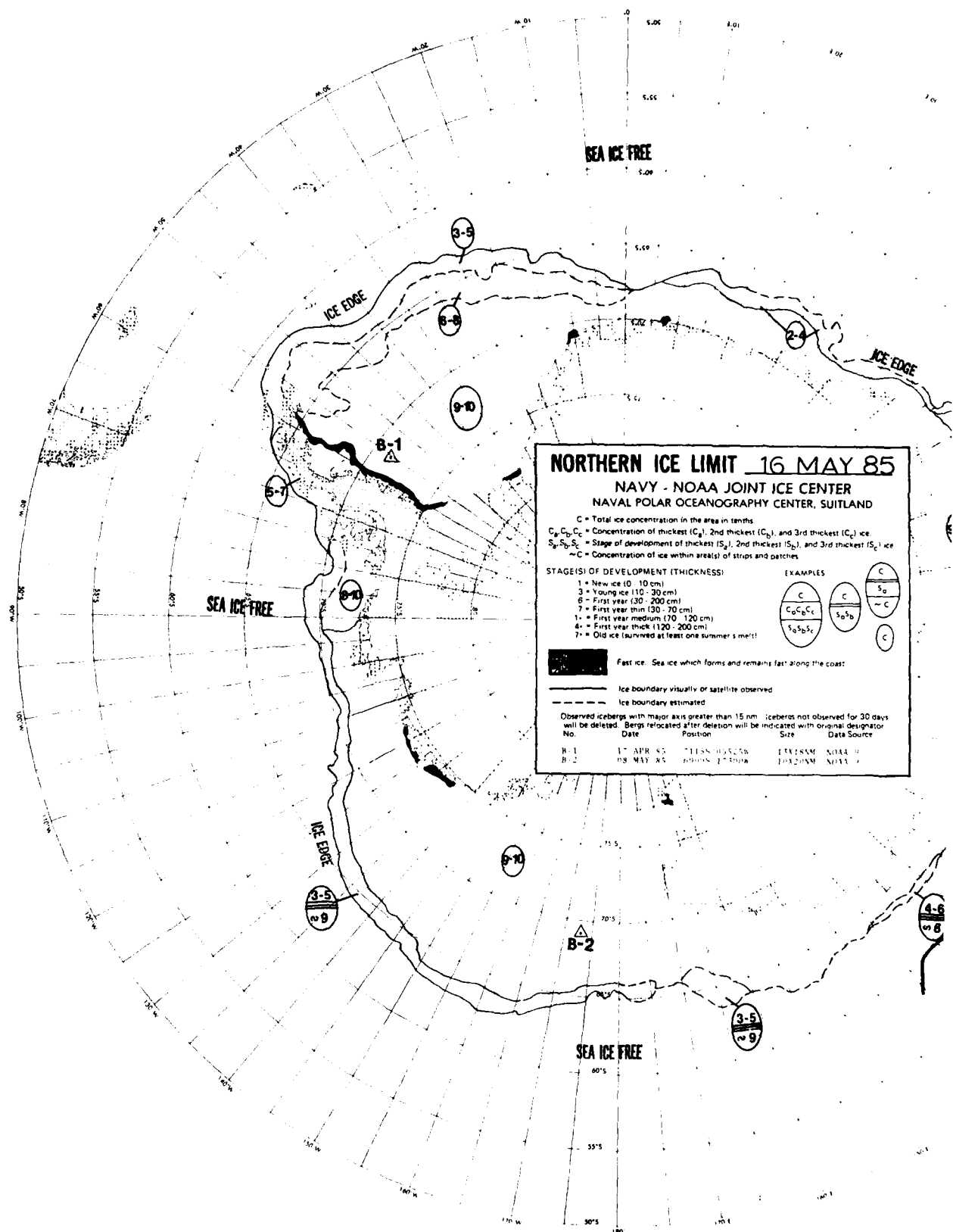
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

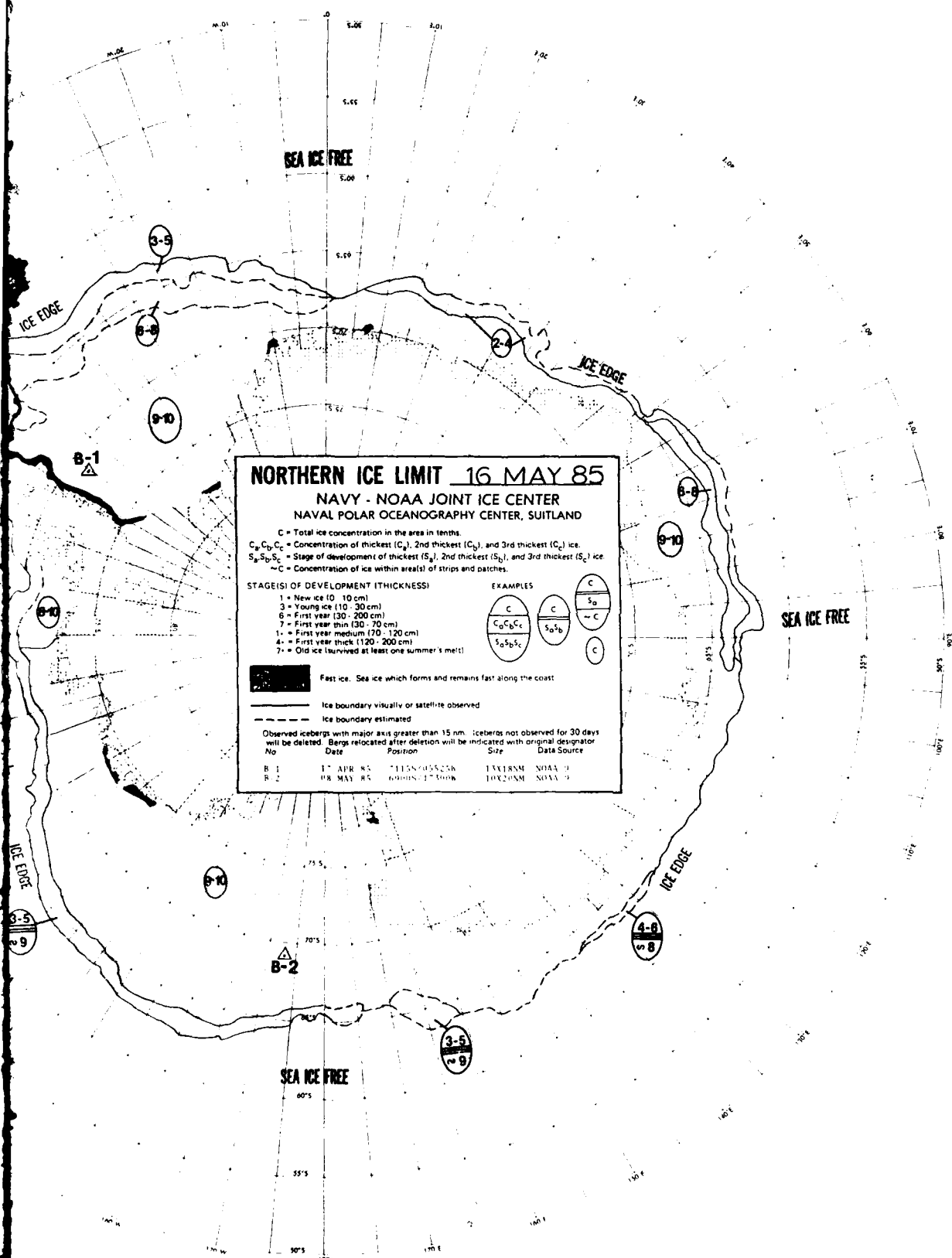
No.	Date	Position	Size	Data Source
B-1	1 APR 85	7115S/0552W	13x18NM	WVX-9
C-2	09 APR 85	6625S/06043E	05x19NM	TRSP

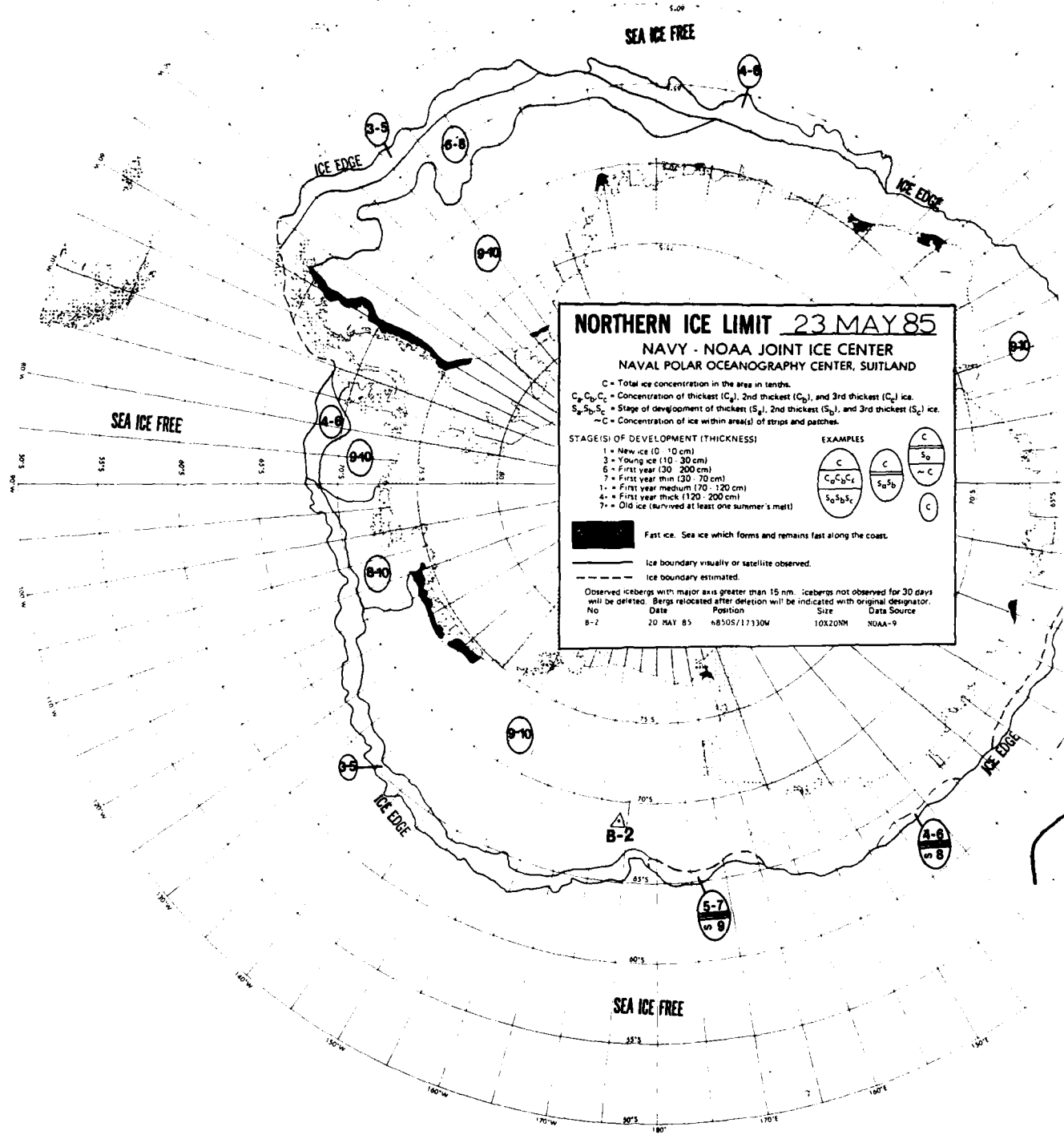


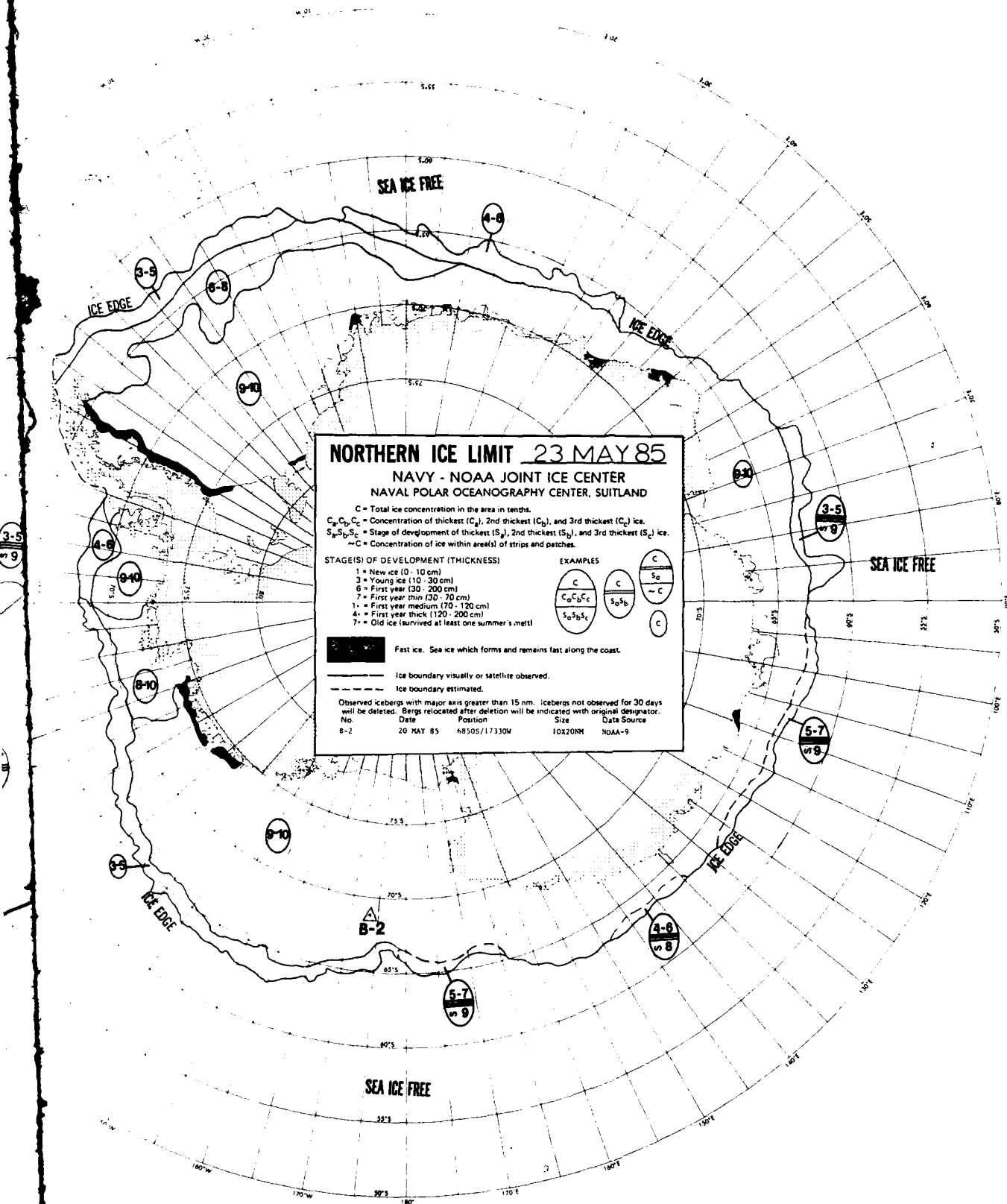


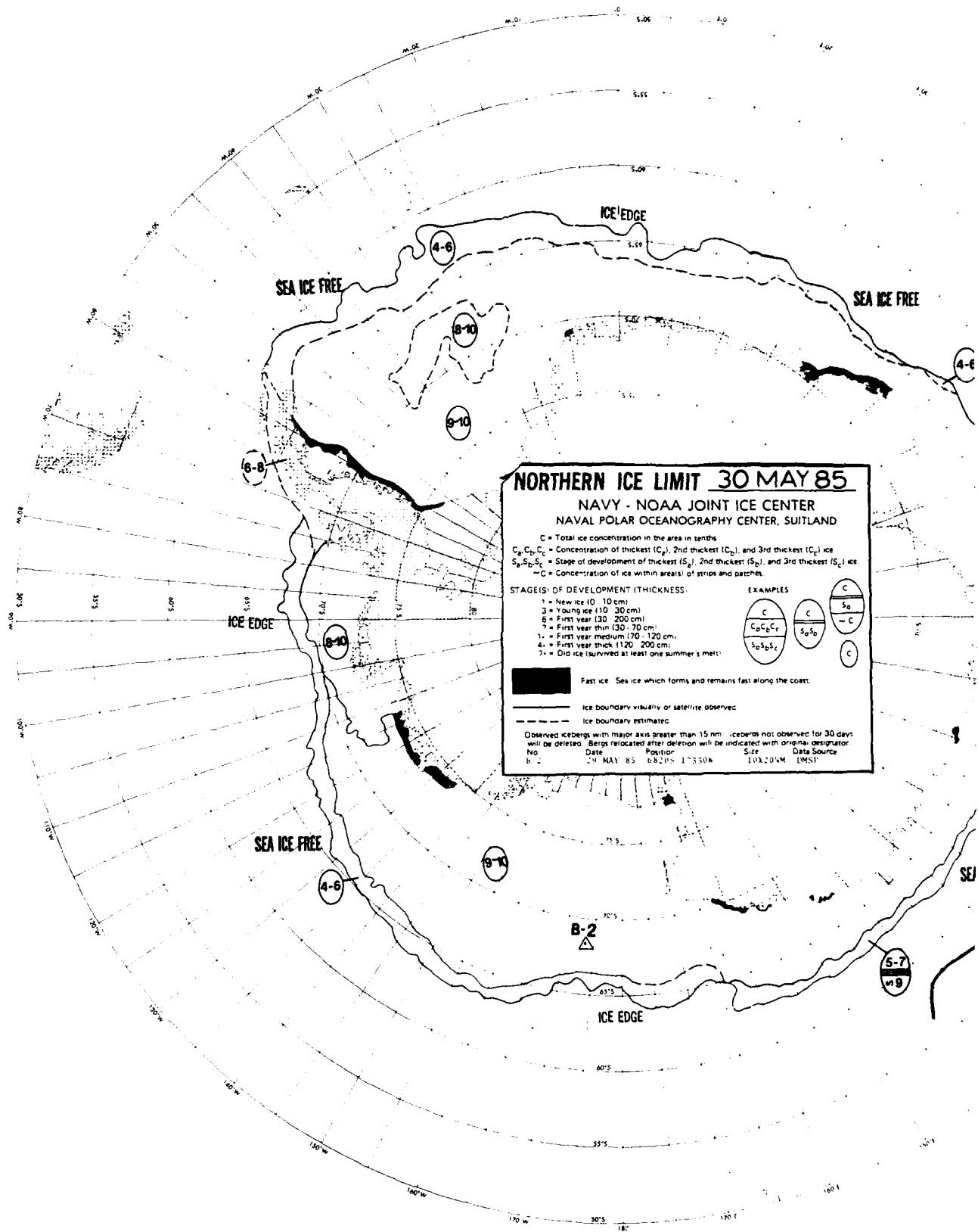


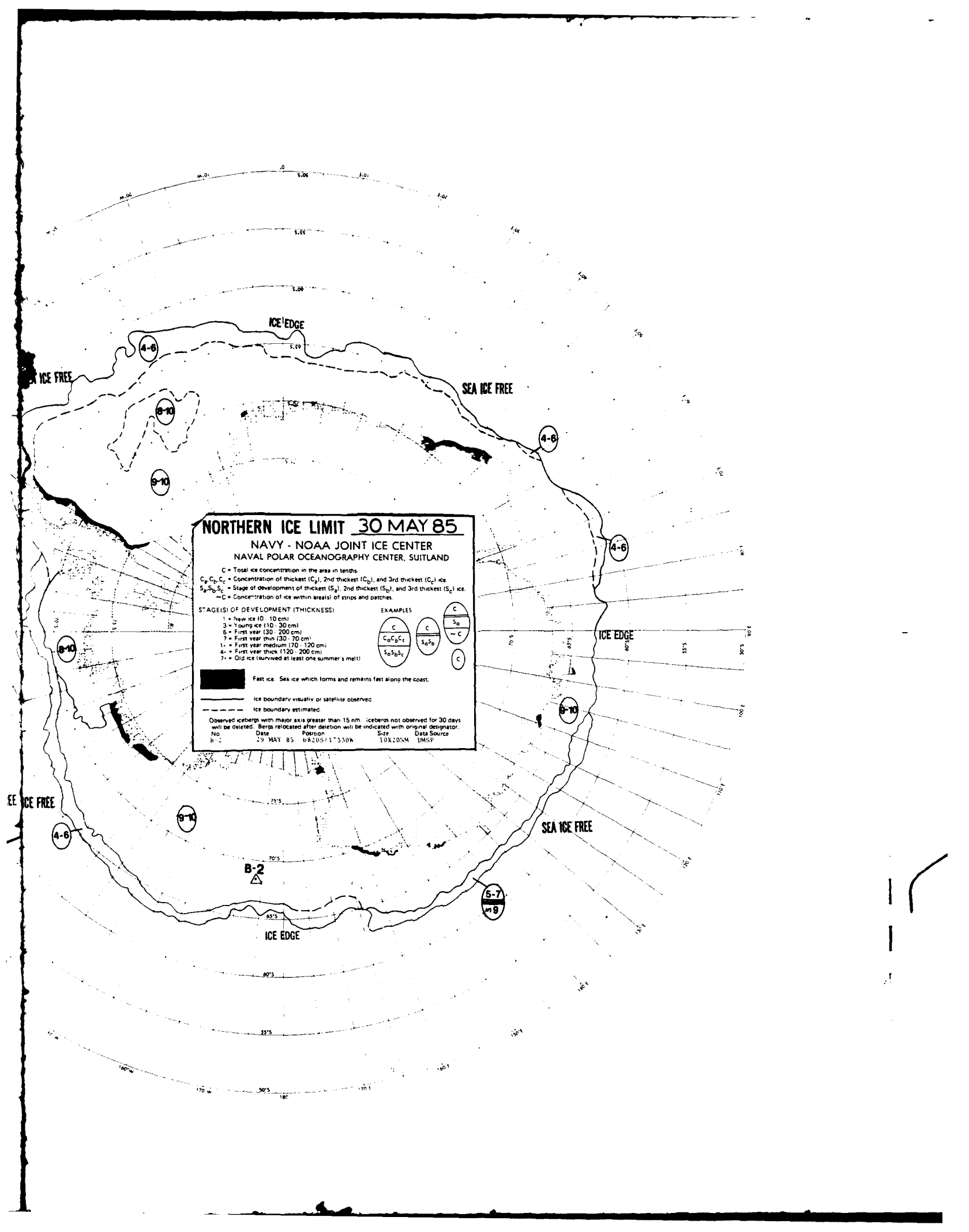


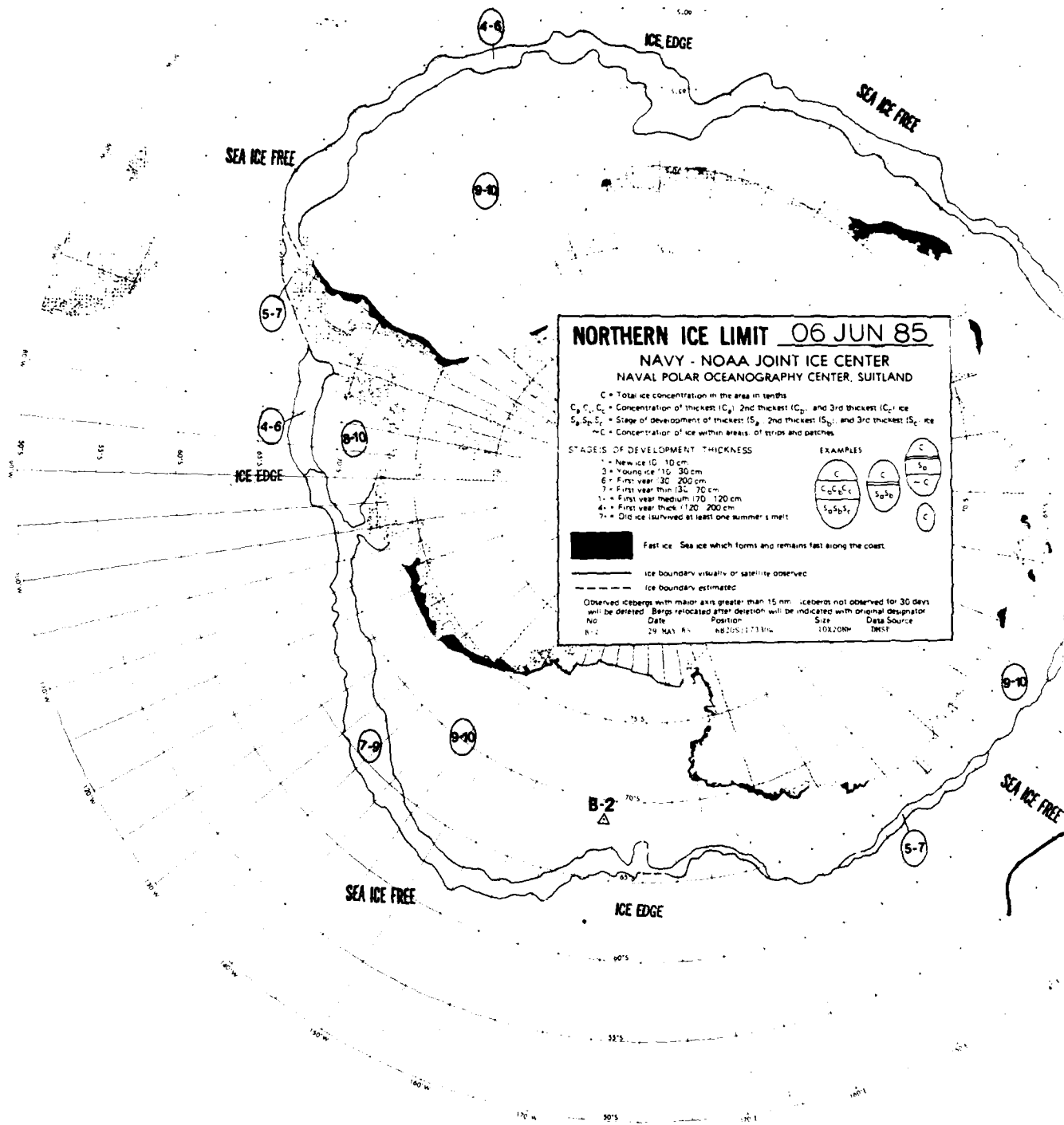








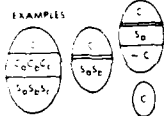




NORTHERN ICE LIMIT 06 JUN 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

- C = Total ice concentration in the area in tenths
 C_1, C_2, C_3 = Concentration of thickest $1C_1$, 2nd thickest $1C_2$, and 3rd thickest $1C_3$ ice
 S_1, S_2, S_3 = Stage of development of thickest $1S_1$, 2nd thickest $1S_2$, and 3rd thickest $1S_3$ ice
 $\sim C$ = Concentration of ice within areas of strips and patches
- STAGES OF DEVELOPMENT THICKNESS
 1 = New ice 10-10 cm
 2 = Young ice 10-30 cm
 3 = First year 30-200 cm
 4 = First year thin 30-70 cm
 5 = First year medium 70-120 cm
 6 = First year thick 120-200 cm
 7 = Old ice survived at least one summer's melt



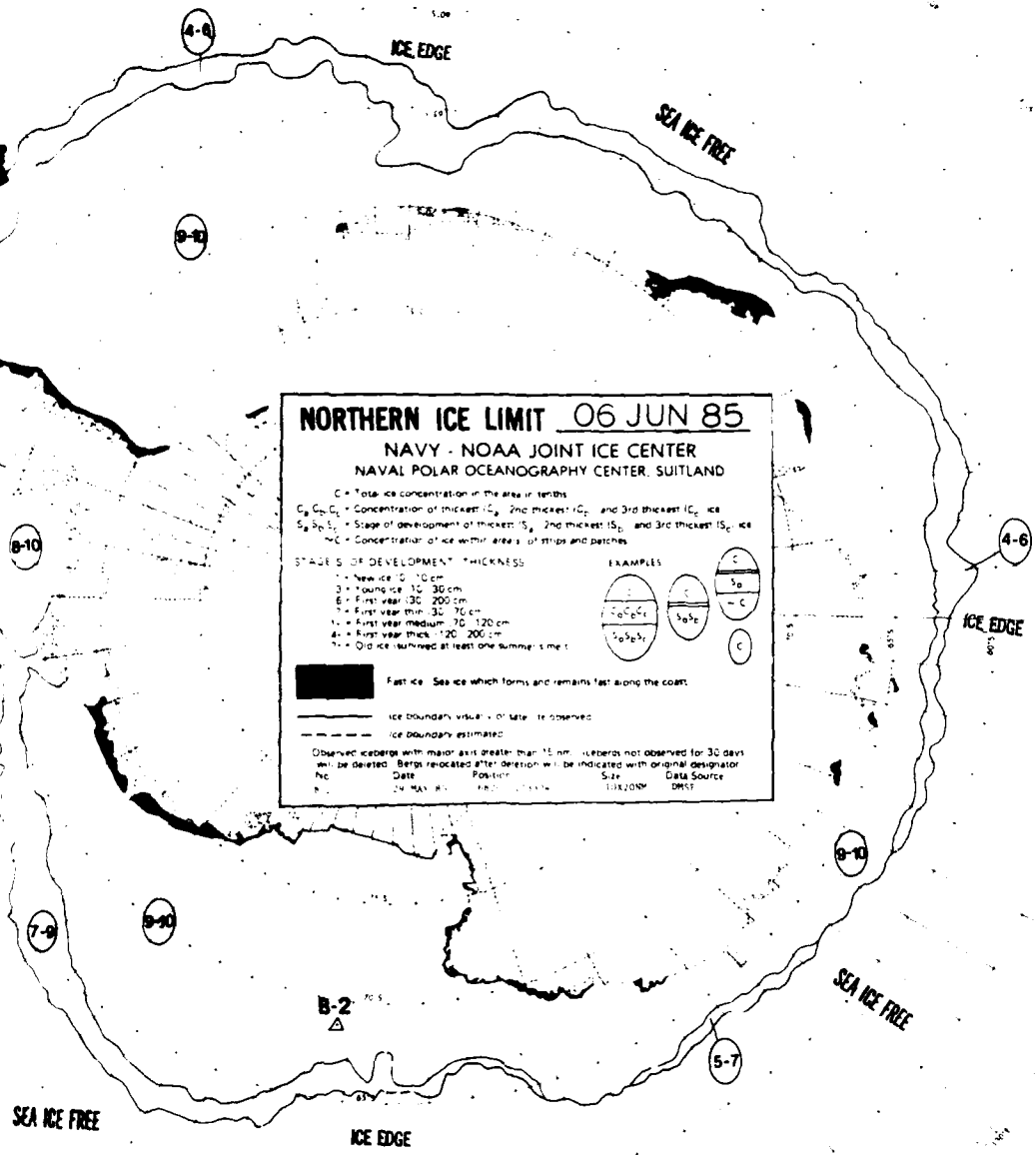
Fast ice - See ice which forms and remains fast along the coast

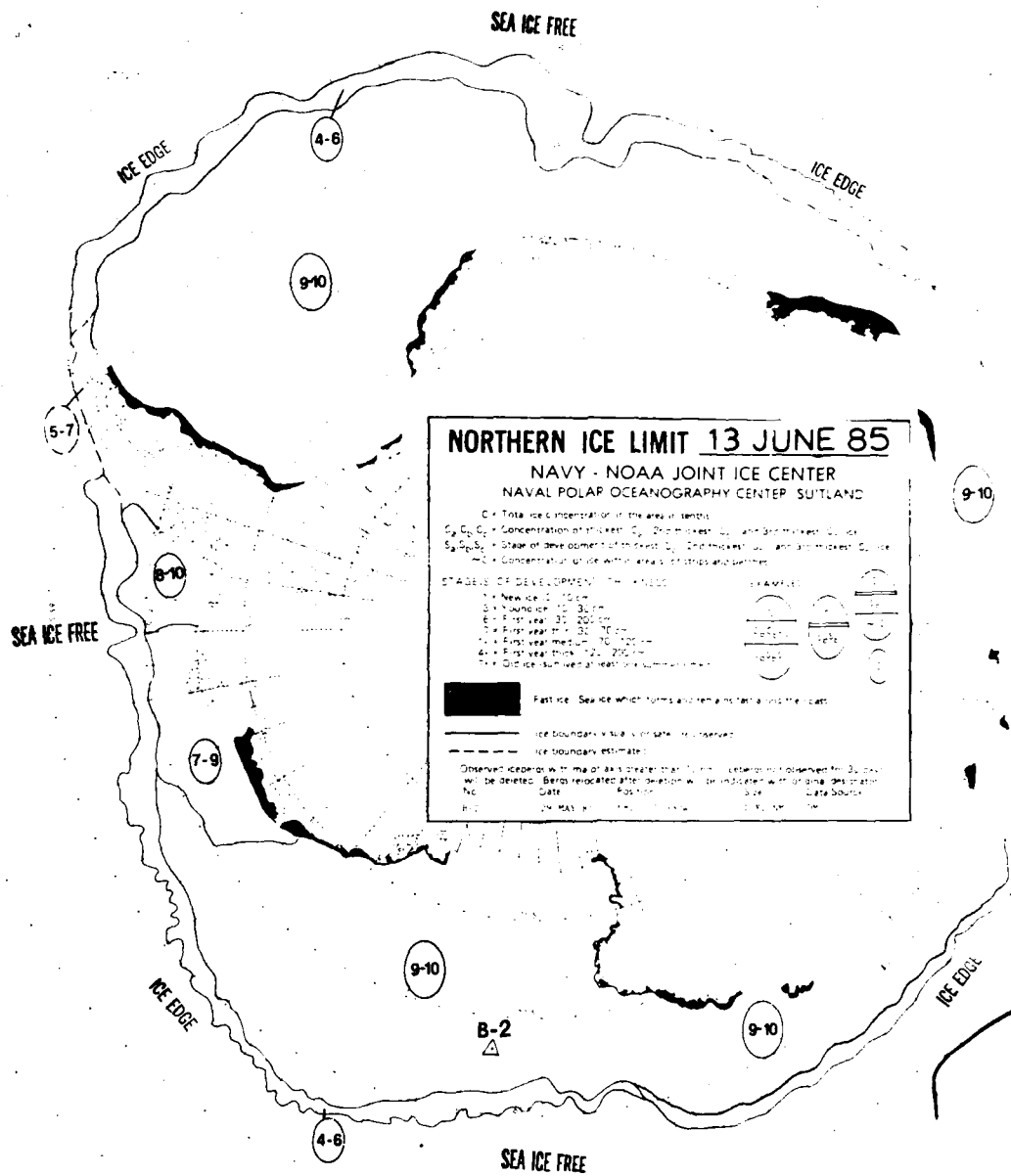
Ice boundary visible - or later - ice observed

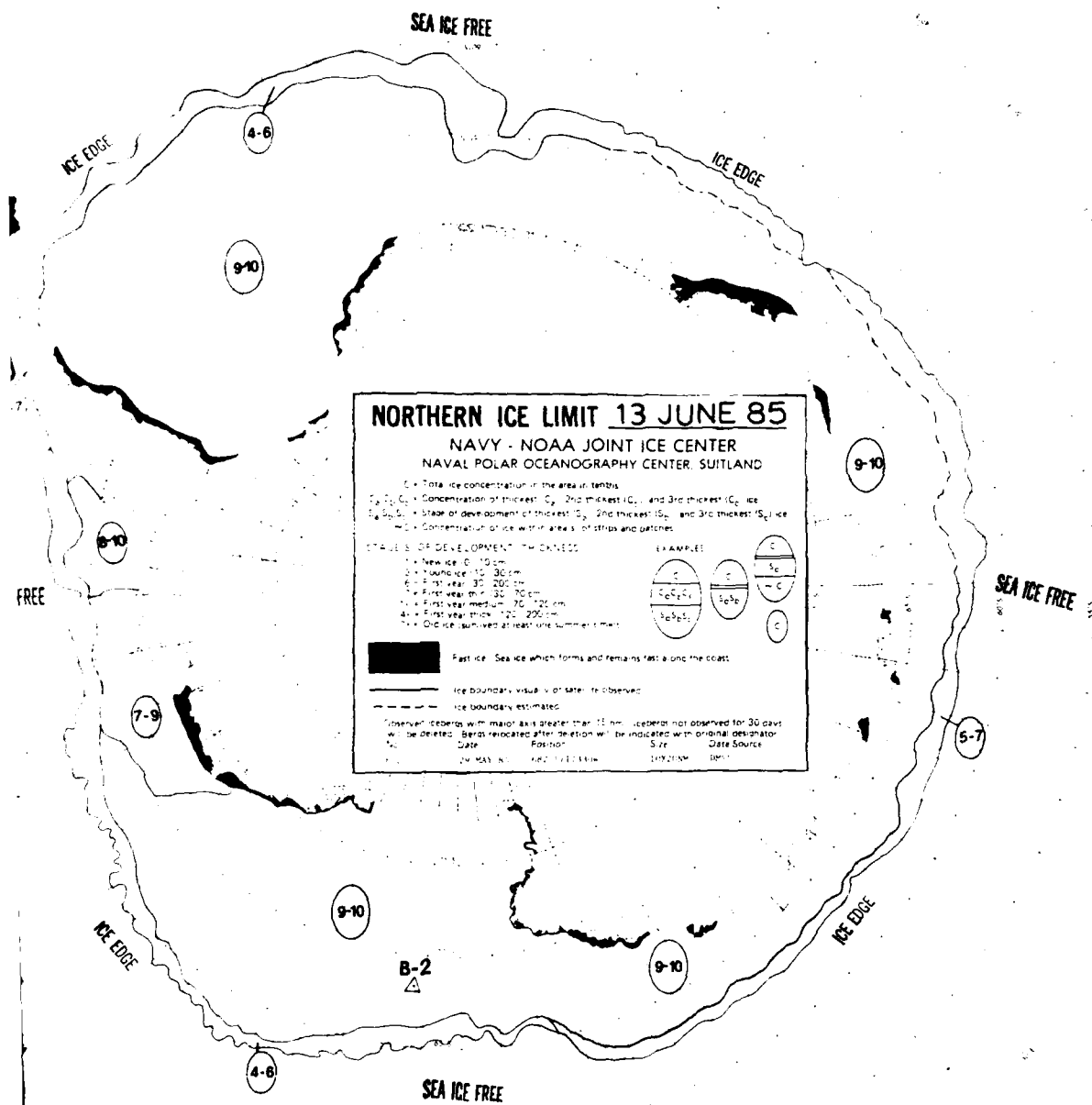
Ice boundary estimated

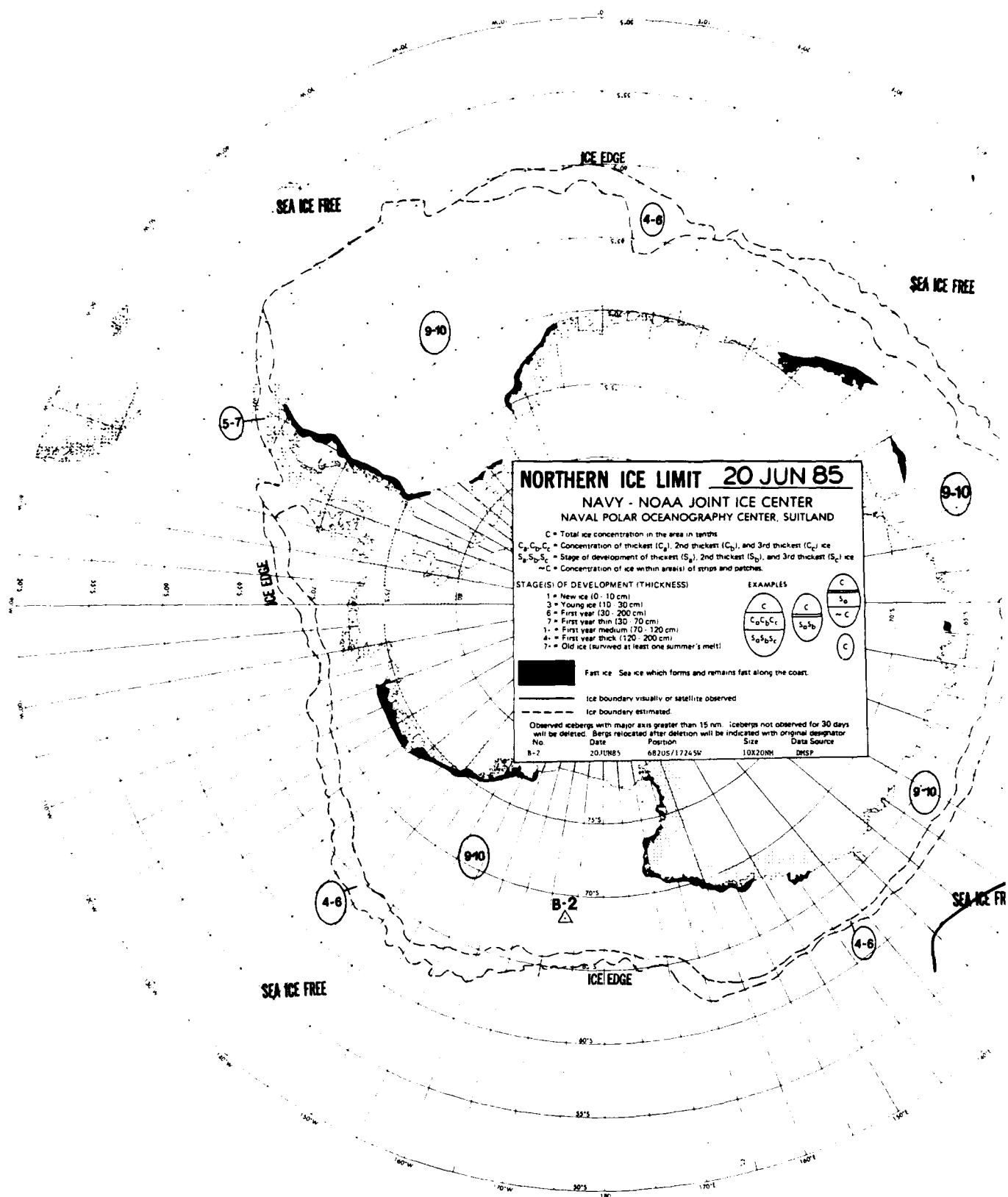
Observed icebergs with major axis greater than 15 nm - icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator

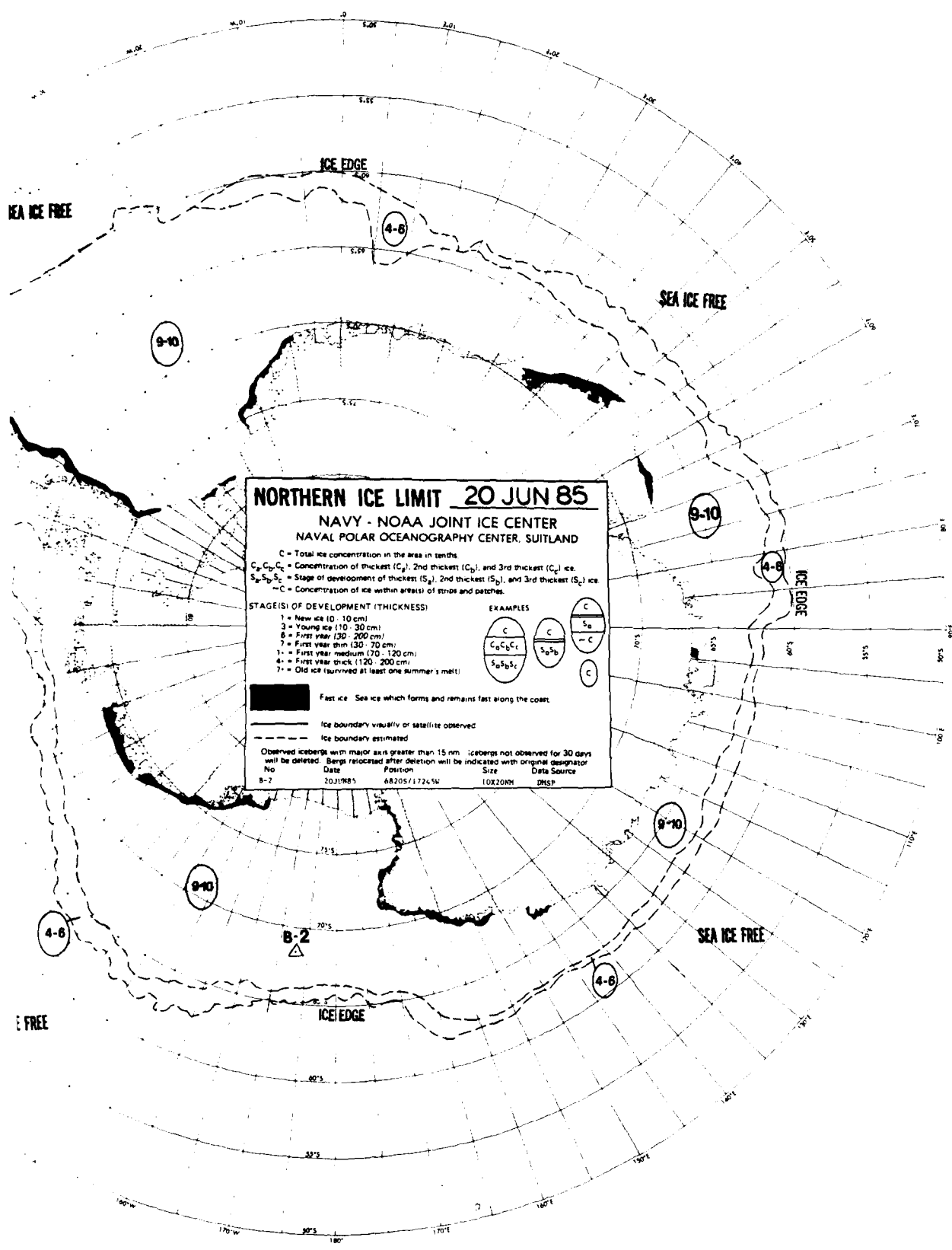
Ice	Date	Position	Size	Data Source
B-1	24 MAY 85	68° 00' N 158° 00' W	115,000	DMSP









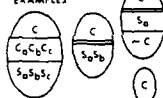


NORTHERN ICE LIMIT 20 JUN 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

- C = Total ice concentration in the area in tenths
 - C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice
 - S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice
 - C = Concentration of ice within area(s) of stripe and patches
- STAGE(S) OF DEVELOPMENT (THICKNESS)
- 1 = New ice (0 - 10 cm)
 - 3 = Young ice (10 - 30 cm)
 - 6 = First year (30 - 200 cm)
 - 7 = First year thin (30 - 70 cm)
 - 1 = First year medium (70 - 120 cm)
 - 4 = First year thick (120 - 200 cm)
 - 7 = Old ice (survived at least one summer's melt)

EXAMPLES



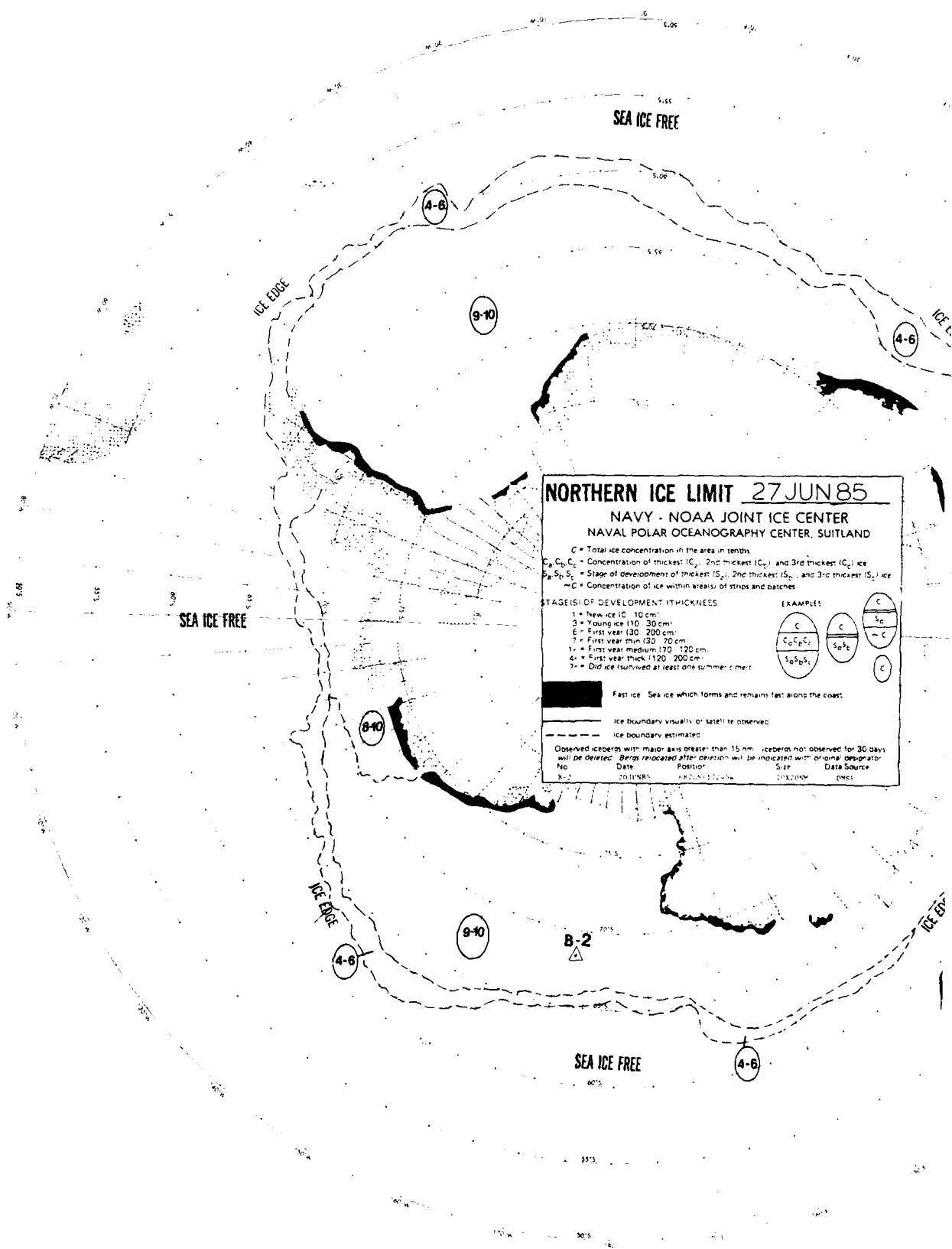
Fast ice - Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed

Ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

No	Date	Position	Size	Data Source
B-2	20 JUN 85	68.205°N 172.4°W	10x20NM	DMSP



SEA ICE FREE

ICE EDGE

SEA ICE FREE

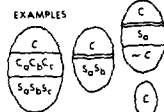
ICE EDGE

NORTHERN ICE LIMIT 27 JUN 85 NAVY - NOAA JOINT ICE CENTER NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
-C = Concentration of ice within areas of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)
1 = New ice (0 - 10 cm)
3 = Young ice (10 - 30 cm)
6 = First year (30 - 200 cm)
7 = First year thin (30 - 70 cm)
1 = First year medium (70 - 120 cm)
4 = First year thick (120 - 200 cm)
7 = Old ice (survived at least one summer's melt)

EXAMPLES



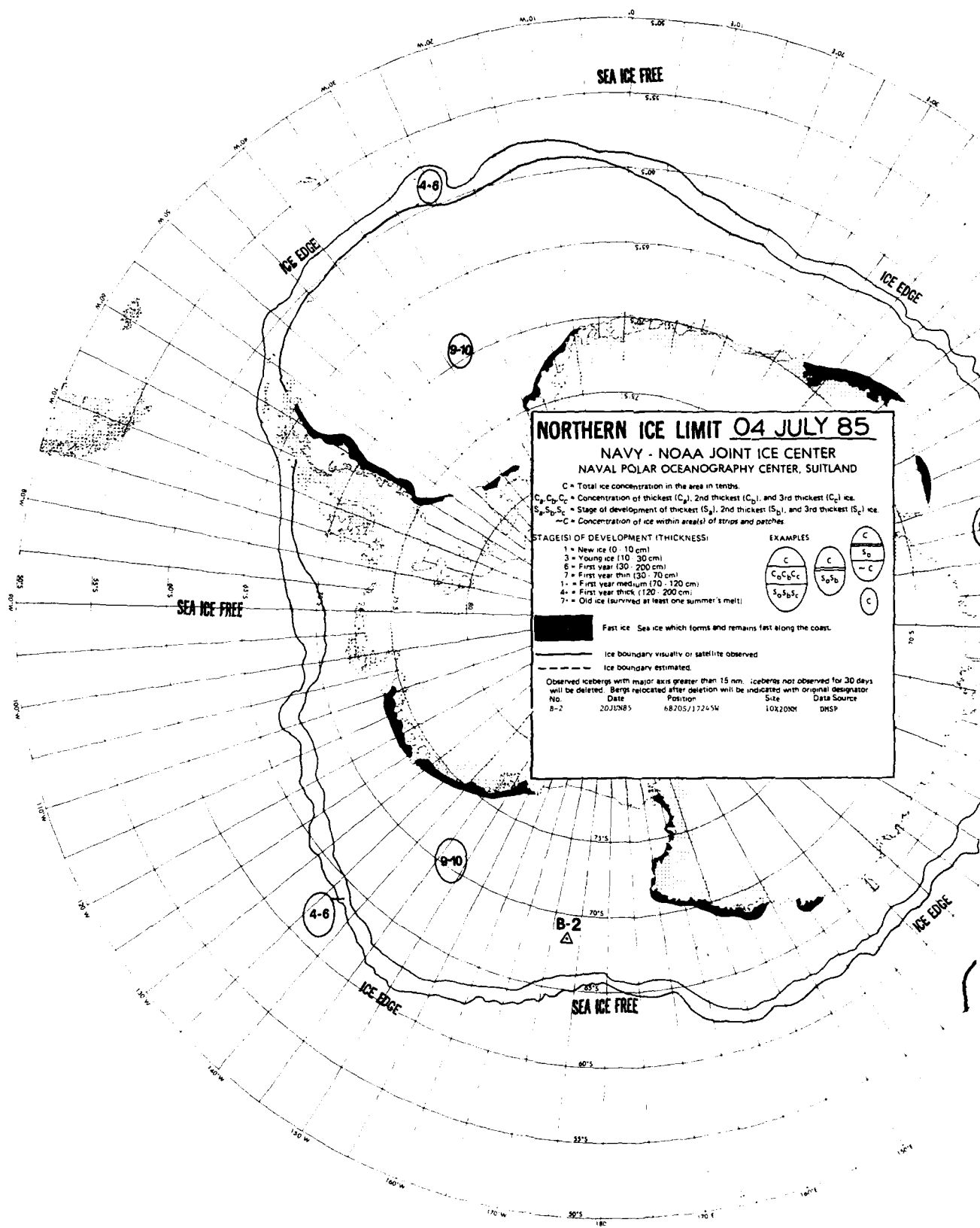
Fast ice Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed
Ice boundary estimated
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
B-2	20 JUN 85	68205717245W	10X20NM	DMSP

B-2

SEA ICE FREE

ICE EDGE



NORTHERN ICE LIMIT 04 JULY 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice.
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 -C = Concentration of ice within areals of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS):
 1 = New ice (10 - 100 cm)
 2 = Young ice (100 - 200 cm)
 3 = First year (200 - 300 cm)
 4 = First year thin (300 - 400 cm)
 5 = First year medium (400 - 500 cm)
 6 = First year thick (500 - 600 cm)
 7 = Old ice (survived at least one summer's melt)

EXAMPLES

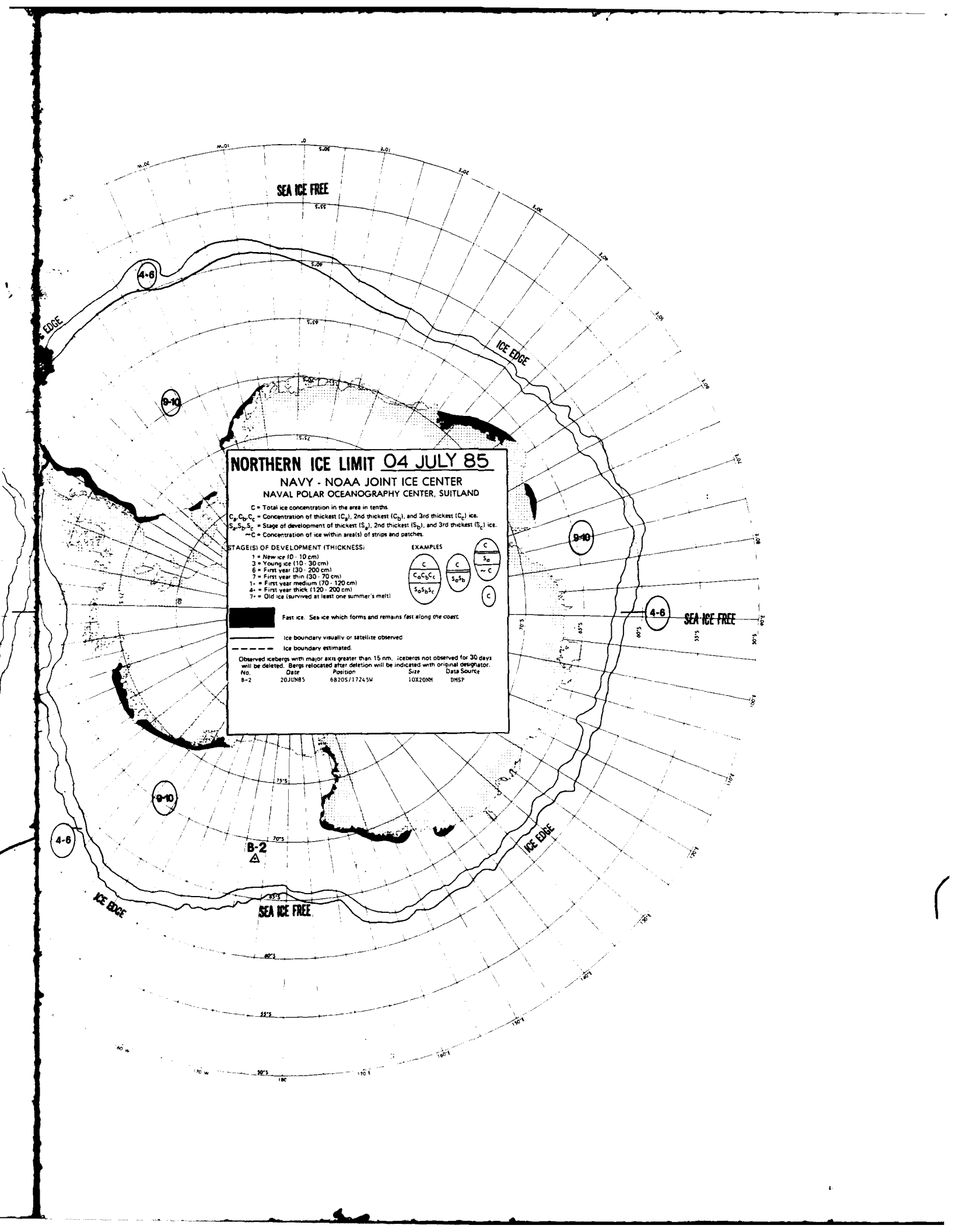
$\frac{C}{C_1 C_2 C_3}$	$\frac{C}{S_1 S_2 S_3}$	$\frac{C}{-C}$
$\frac{C}{S_1 S_2 S_3}$	$\frac{C}{-C}$	$\frac{C}{-C}$

Fast ice: Sea ice which forms and remains fast along the coast.

— Ice boundary visually or satellite observed
 --- Ice boundary estimated.

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
B-2	20 JUN 85	68.705/172.45W	10x20NM	DMSP



NORTHERN ICE LIMIT 04 JULY 85
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
C_a, C_b, C_c = Concentration of thickest (C_a), 2nd thickest (C_b), and 3rd thickest (C_c) ice.
S_a, S_b, S_c = Stage of development of thickest (S_a), 2nd thickest (S_b), and 3rd thickest (S_c) ice.
-C = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS):
1 = New ice (10 - 10 cm)
3 = Young ice (10 - 30 cm)
6 = First year (30 - 200 cm)
7 = First year thin (30 - 70 cm)
1 = First year medium (70 - 120 cm)
4 = First year thick (120 - 200 cm)
7 = Old ice (survived at least one summer's melt)

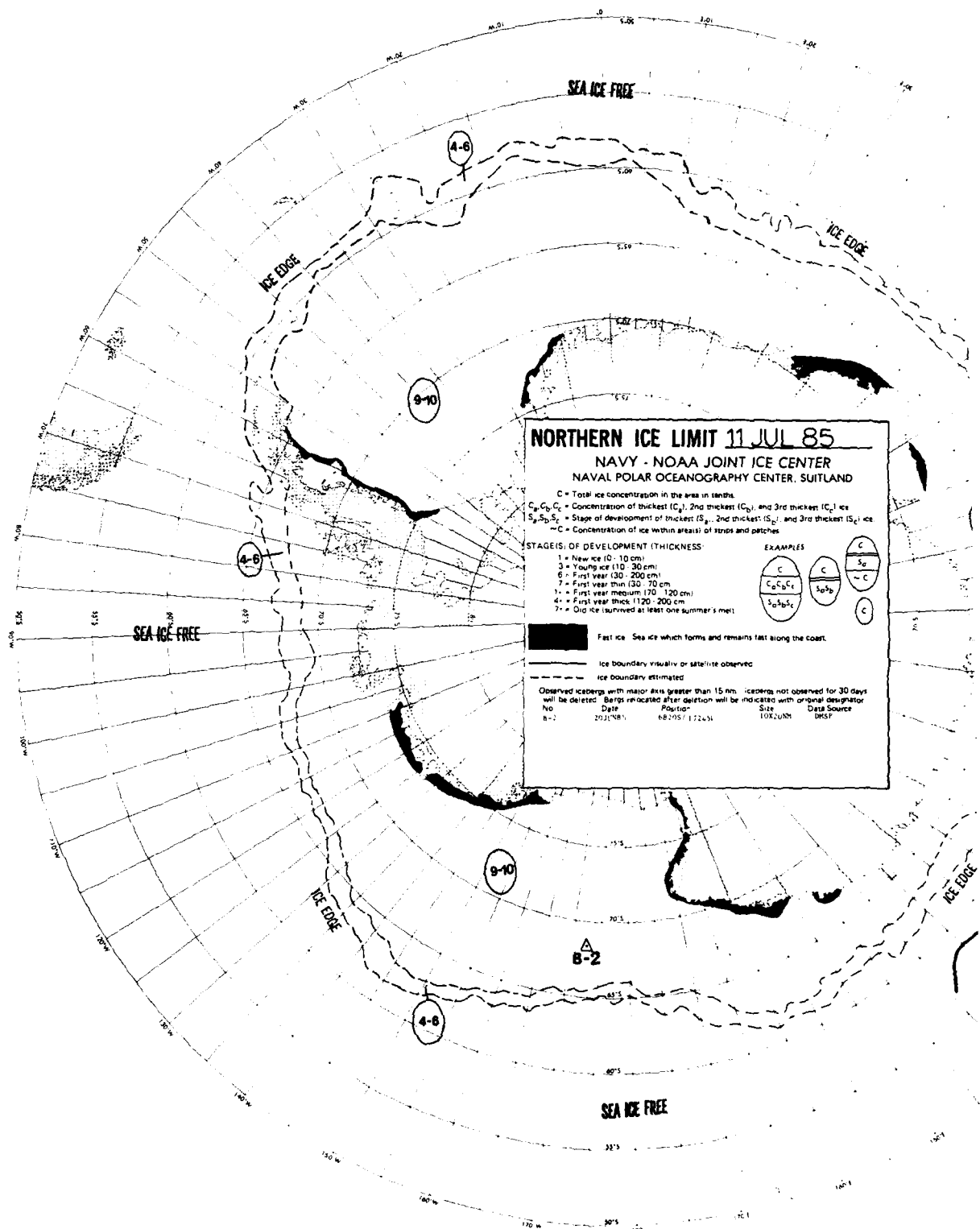
EXAMPLES

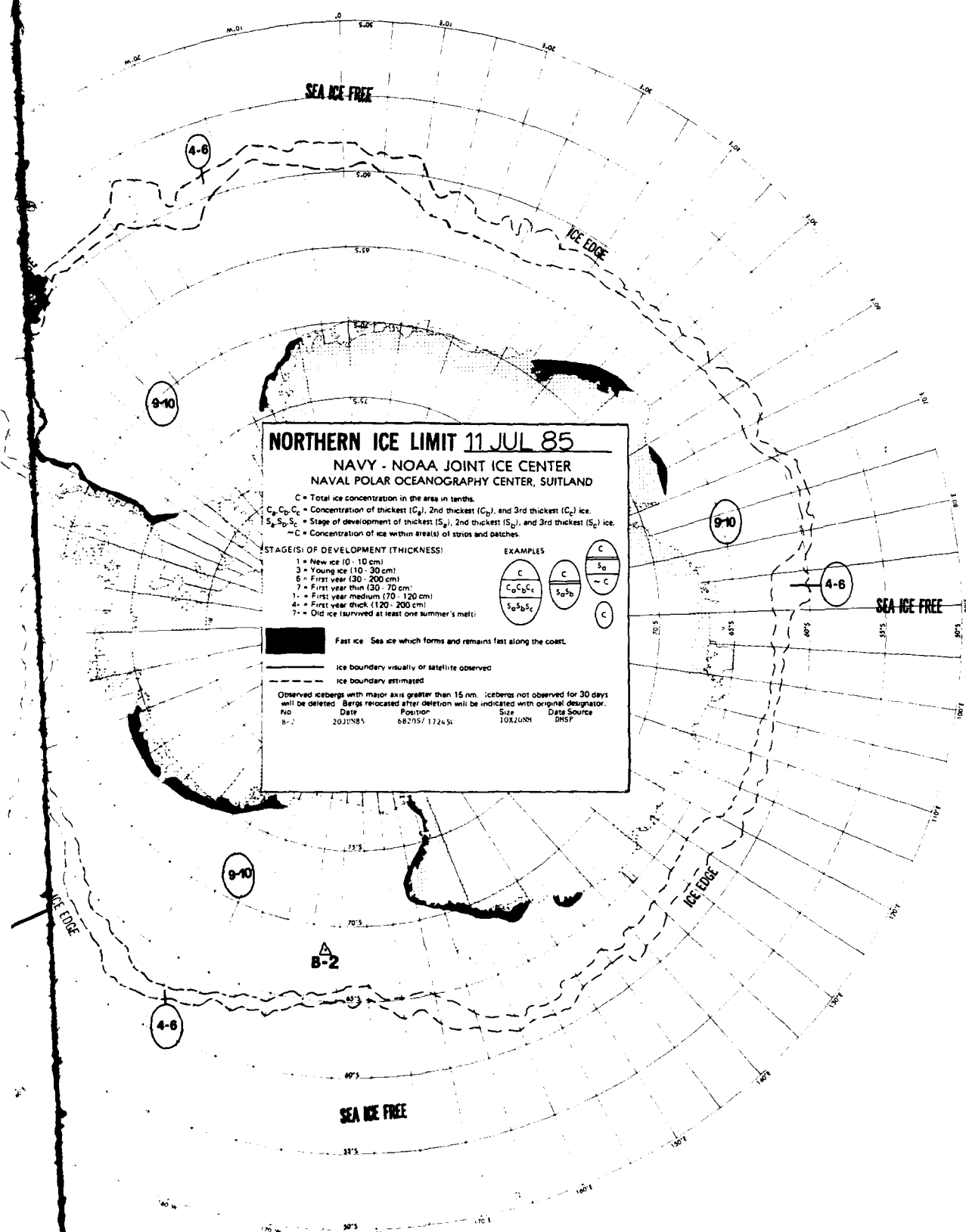
$\frac{C}{C_a C_b C_c}$	$\frac{C}{S_a S_b S_c}$	$\frac{C}{-C}$
$\frac{C}{S_a S_b S_c}$	$\frac{C}{-C}$	$\frac{C}{-C}$

Fast ice: Sea ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
B-2	20 JUN 85	6820S/17245W	10X20NM	DMSP





NORTHERN ICE LIMIT 11 JUL 85
 NAVY - NOAA JOINT ICE CENTER
 NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice.
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 ~C = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (20 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES

$\frac{C}{C_1 C_2 C_3}$
 $\frac{S_1 S_2 S_3}{S_1 S_2 S_3}$

$\frac{C}{S_1 S_2}$
 $\frac{C}{S_1 S_2}$

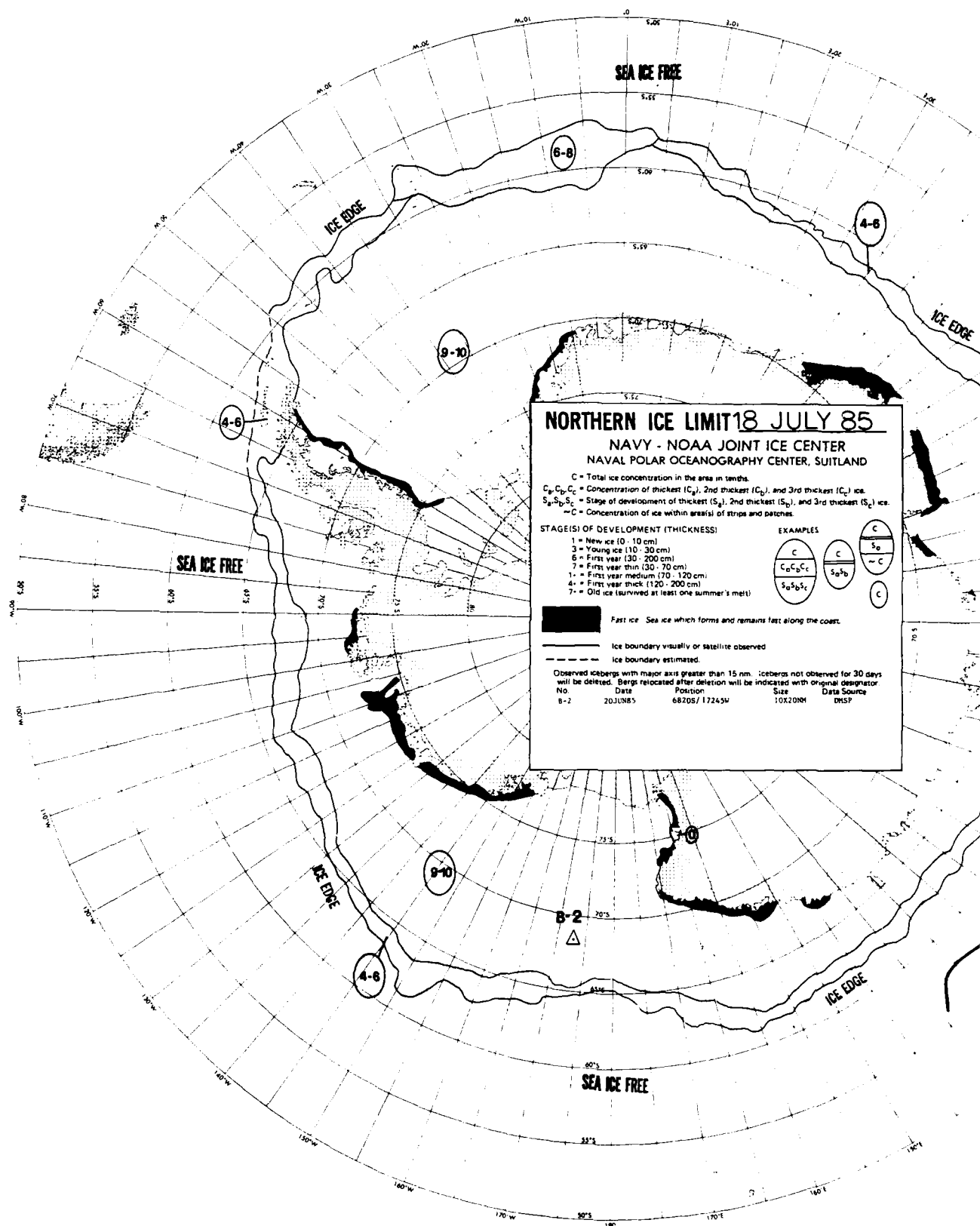
$\frac{C}{S_1}$
 $\frac{C}{S_1}$

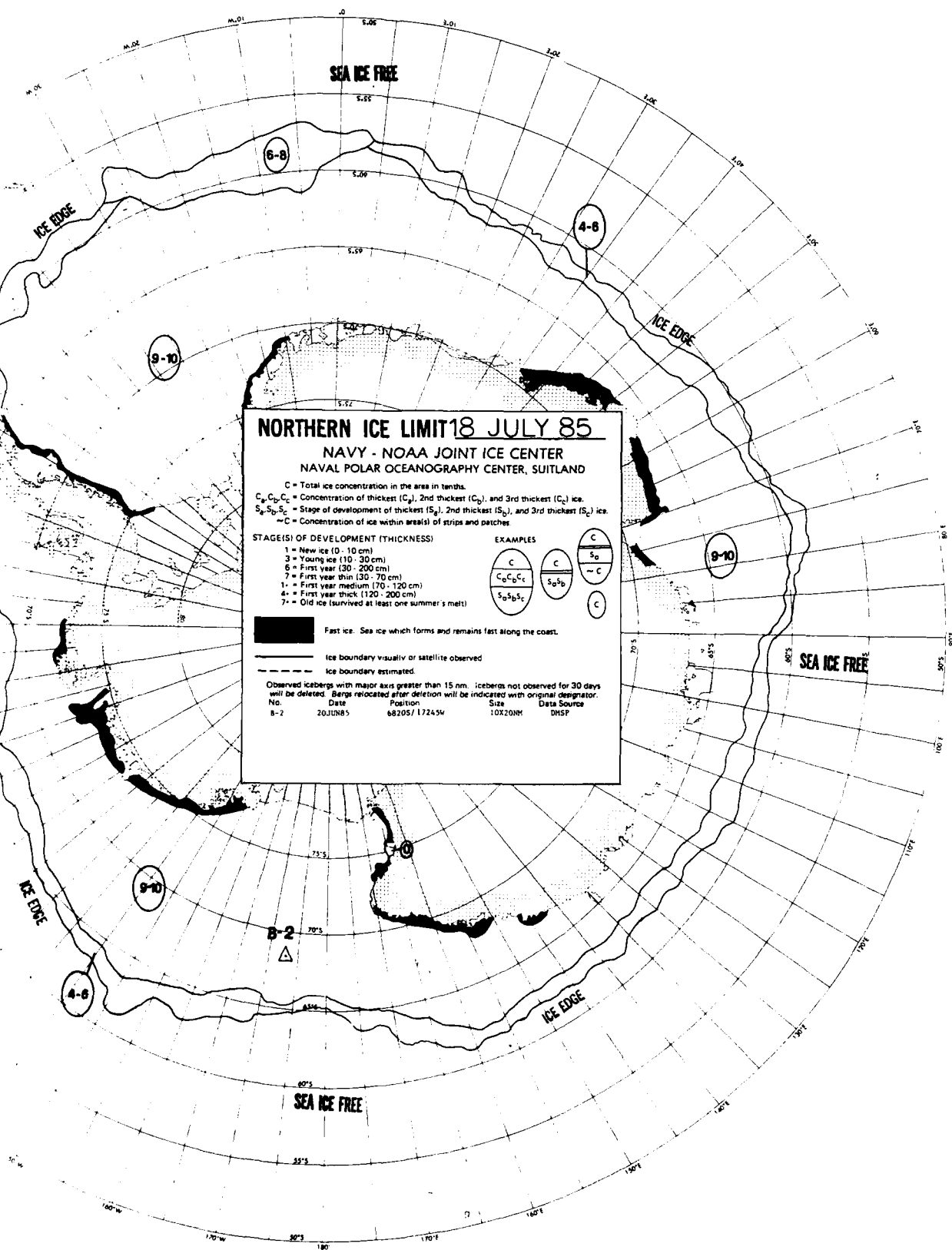
Fast ice Sea ice which forms and remains fast along the coast.

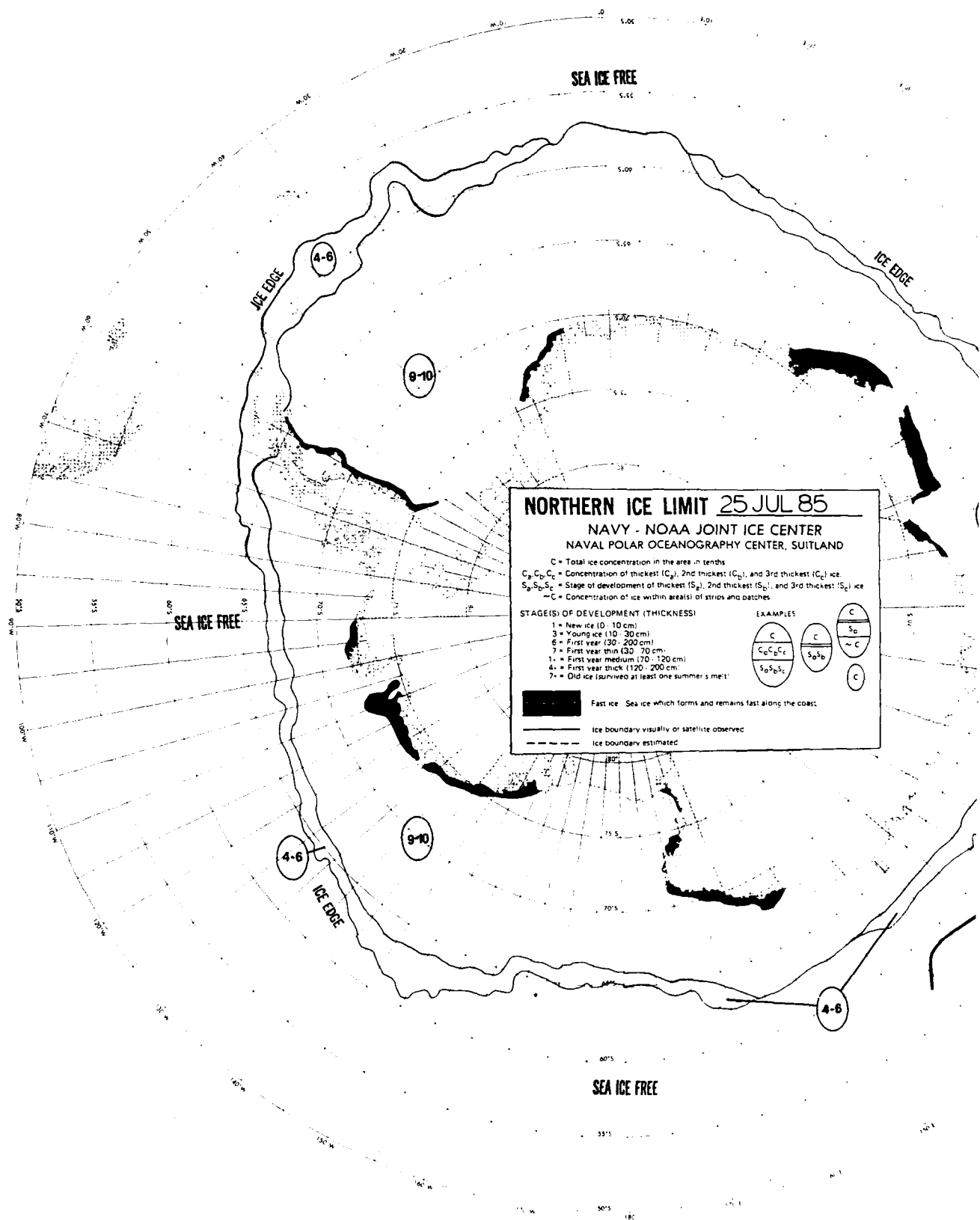
— Ice boundary visually or satellite observed
 --- Ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
87-2	20 JUN 85	68°05'N 172°45'W	108200m	DMSP







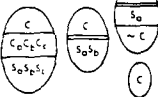
SEA ICE FREE

NORTHERN ICE LIMIT 25 JUL 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

- C = Total ice concentration in the area in tenths
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice
 C_1, S_1 = Concentration of ice within areals of strips and patches
- STAGE OF DEVELOPMENT (THICKNESS):
- 1 = New ice (10 - 10 cm)
 - 3 = Young ice (10 - 30 cm)
 - 6 = First year (30 - 200 cm)
 - 7 = First year thin (30 - 70 cm)
 - 1 = First year medium (70 - 120 cm)
 - 4 = First year thick (120 - 200 cm)
 - 7 = Old ice (survived at least one summer's melt)

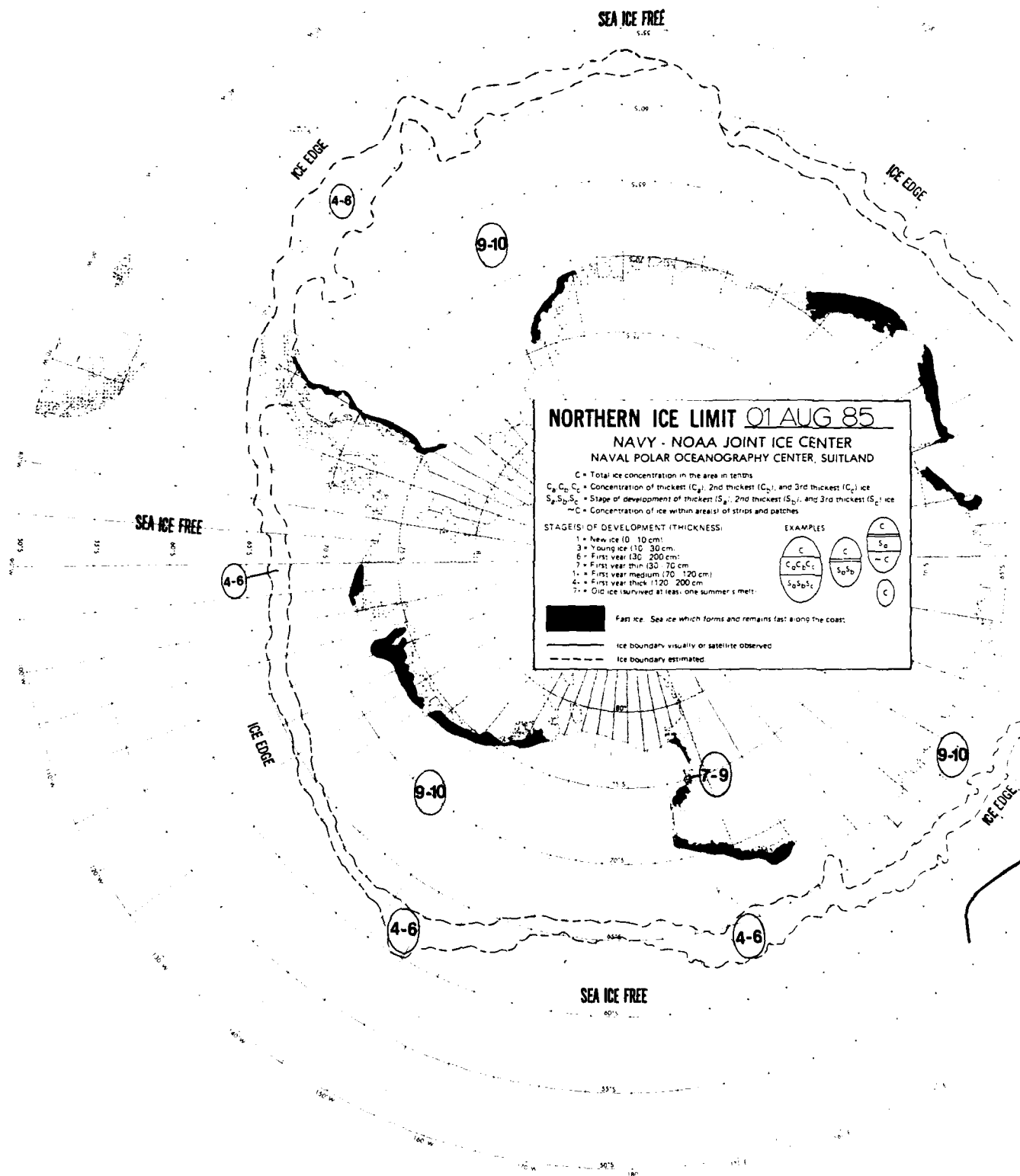
EXAMPLES



- Fast ice: Sea ice which forms and remains fast along the coast.
- Ice boundary visually or satellite observed
- Ice boundary estimated

SEA ICE FREE

SEA ICE FREE



SEA ICE FREE

ICE EDGE

ICE EDGE

SEA ICE FREE

NORTHERN ICE LIMIT 01 AUG 85

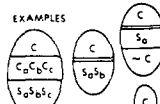
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice
S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice
~C = Concentration of ice within areas of strips and patches

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7+ = Old ice (survived at least one summer's melt)

EXAMPLES



- Fast ice - Sea ice which forms and remains fast along the coast.
- Ice boundary visually or satellite observed
- Ice boundary estimated

SEA ICE FREE

ICE EDGE

4-6

4-6

7-9

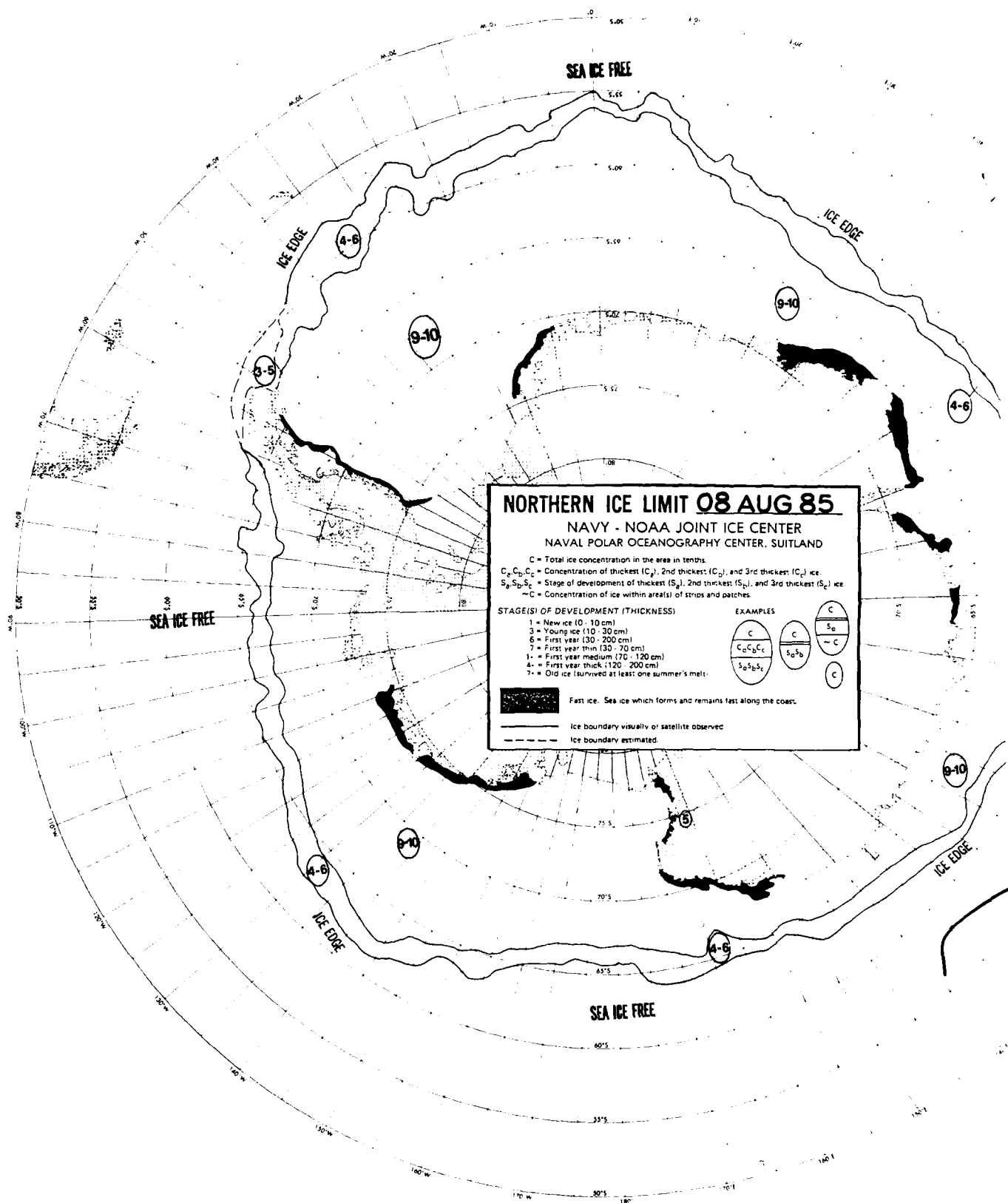
9-10

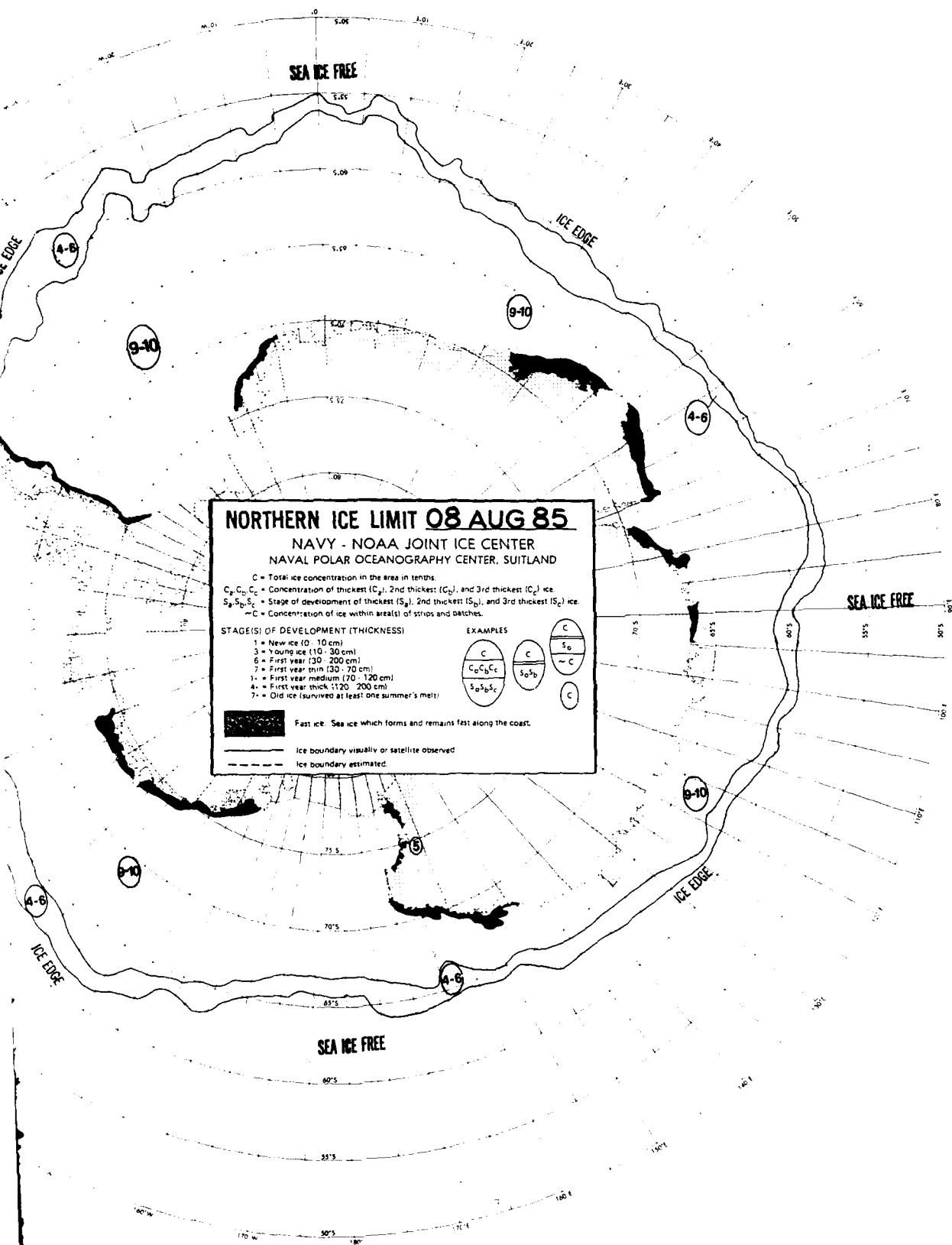
9-10

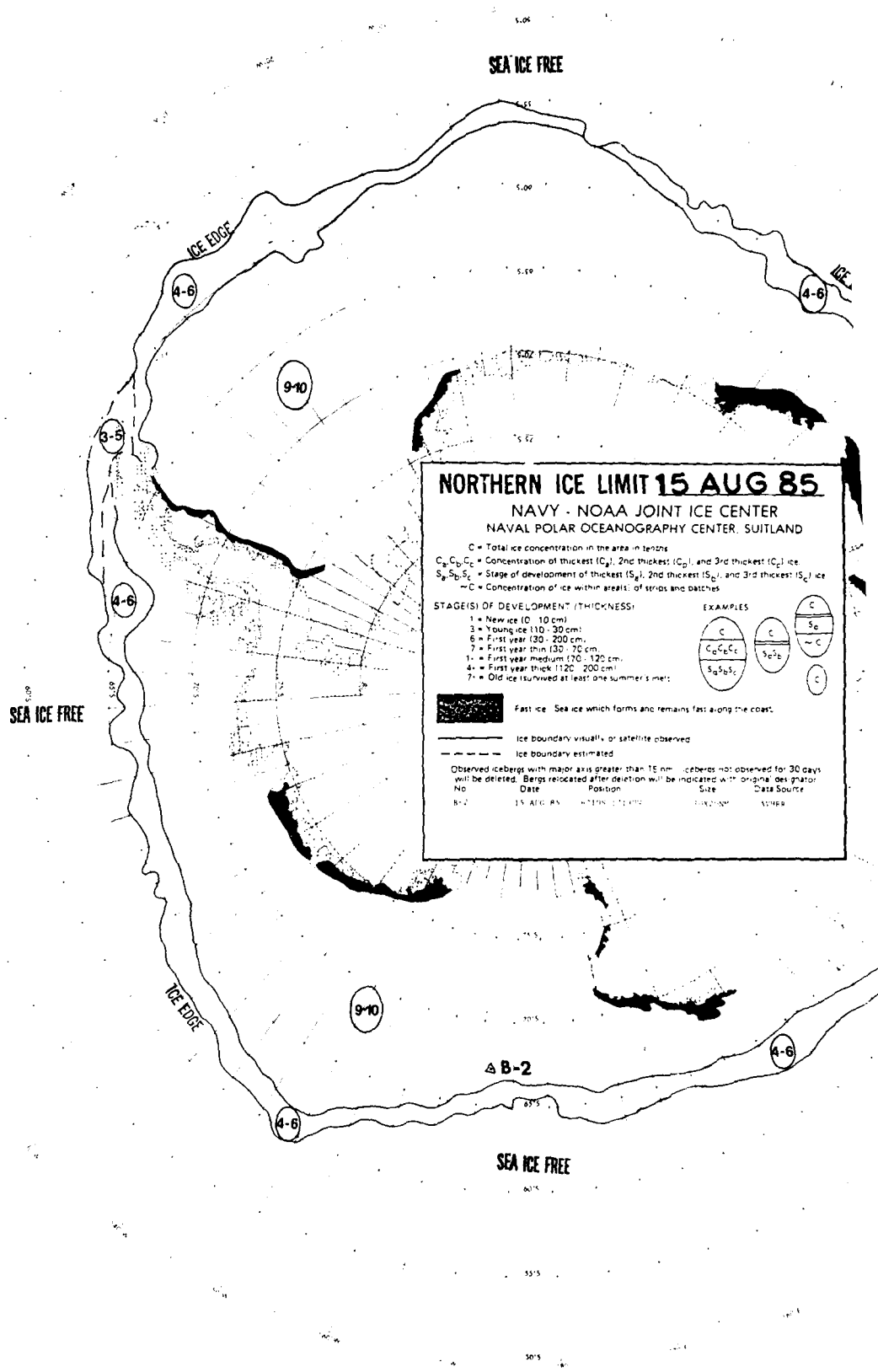
9-10

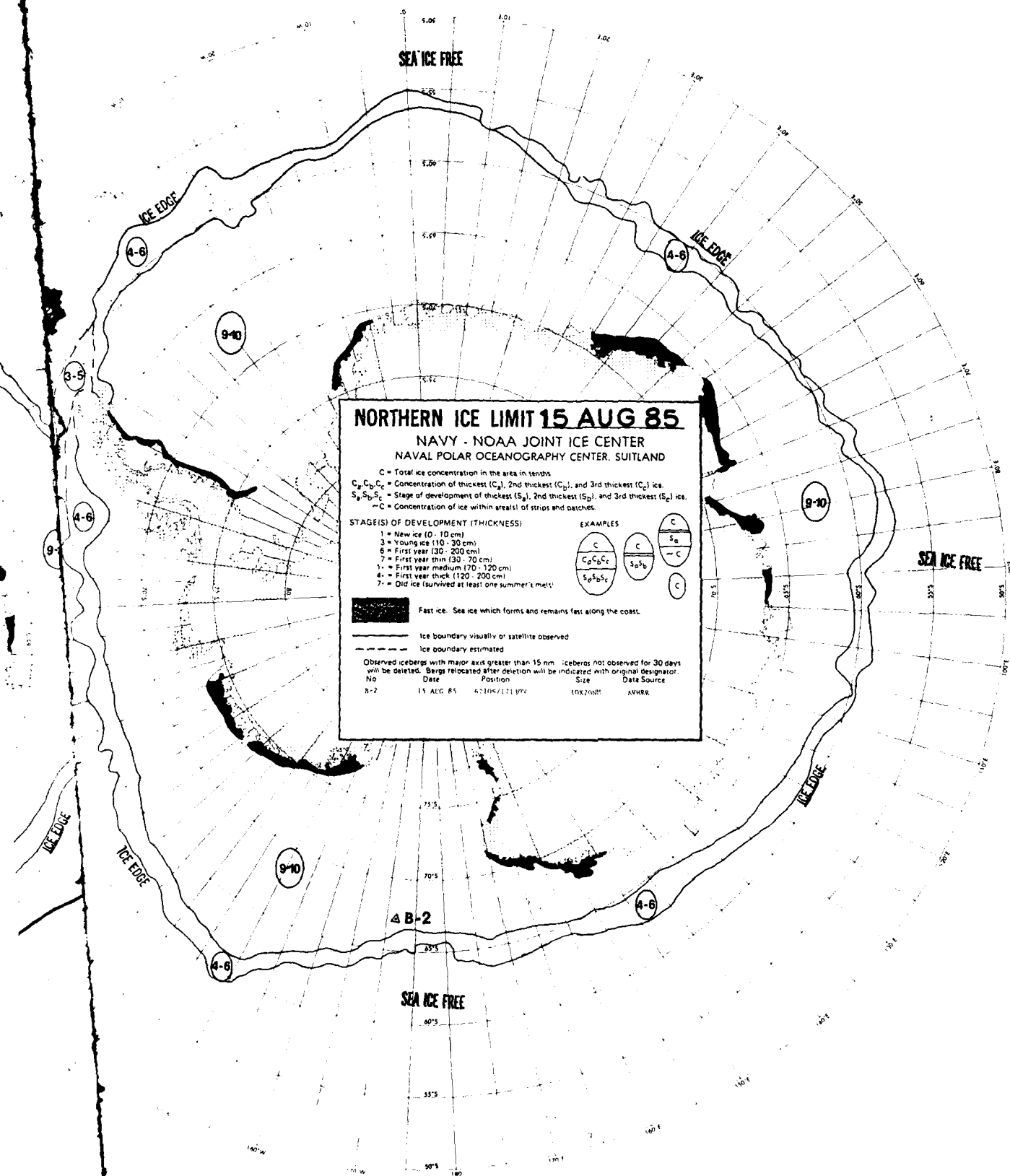
4-6

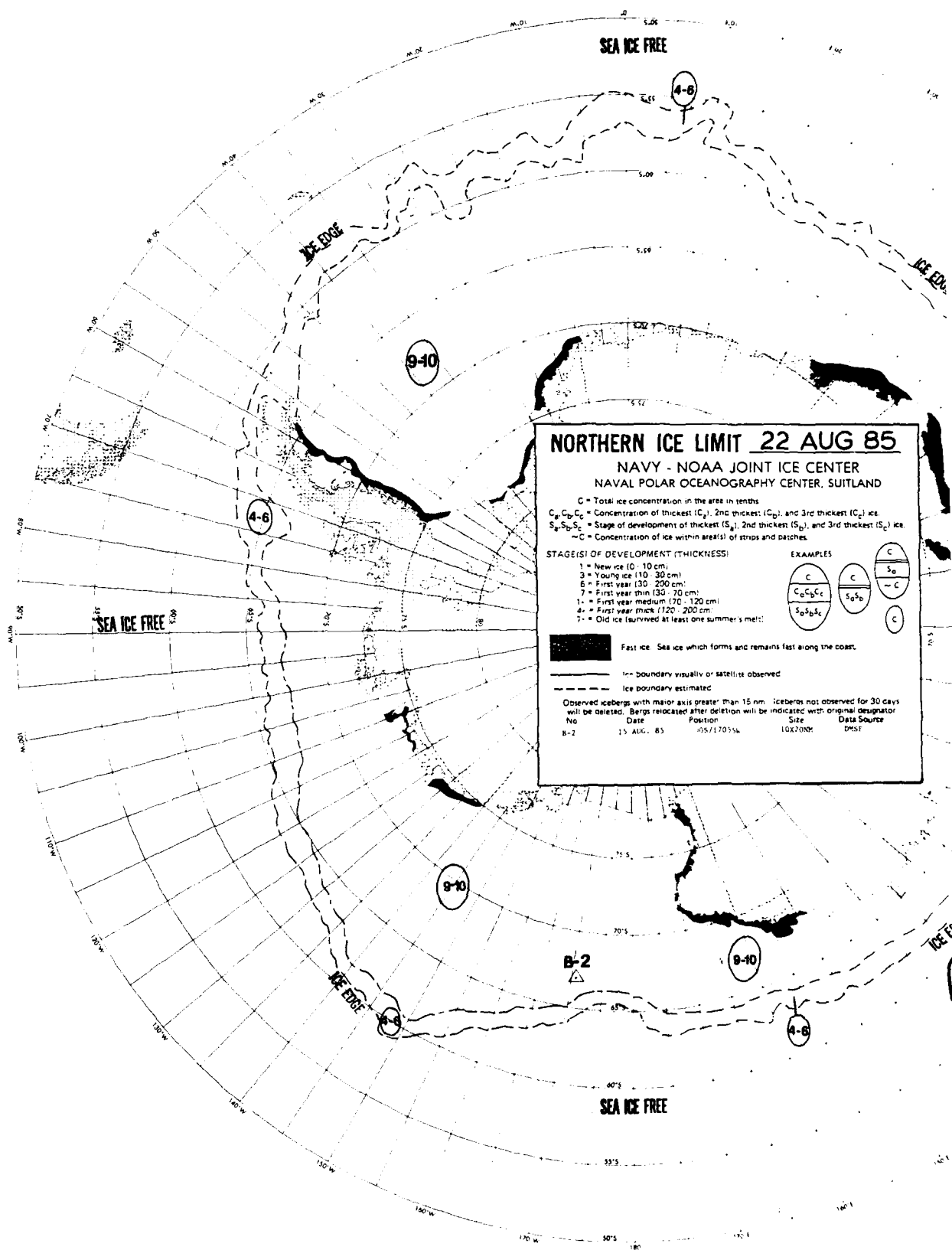
4-6











SEA ICE FREE

4-6

ICE EDGE

9-10

ICE EDGE

4-6

9-10

SEA ICE FREE

NORTHERN ICE LIMIT 22 AUG 85

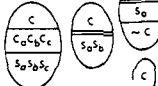
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
C₁C₂C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁S₂S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
~C = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES



Fast ice: Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed.

Ice boundary estimated.

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
B-2	15 AUG. 85	67005/17055N	10X70NM	DMSP

9-10

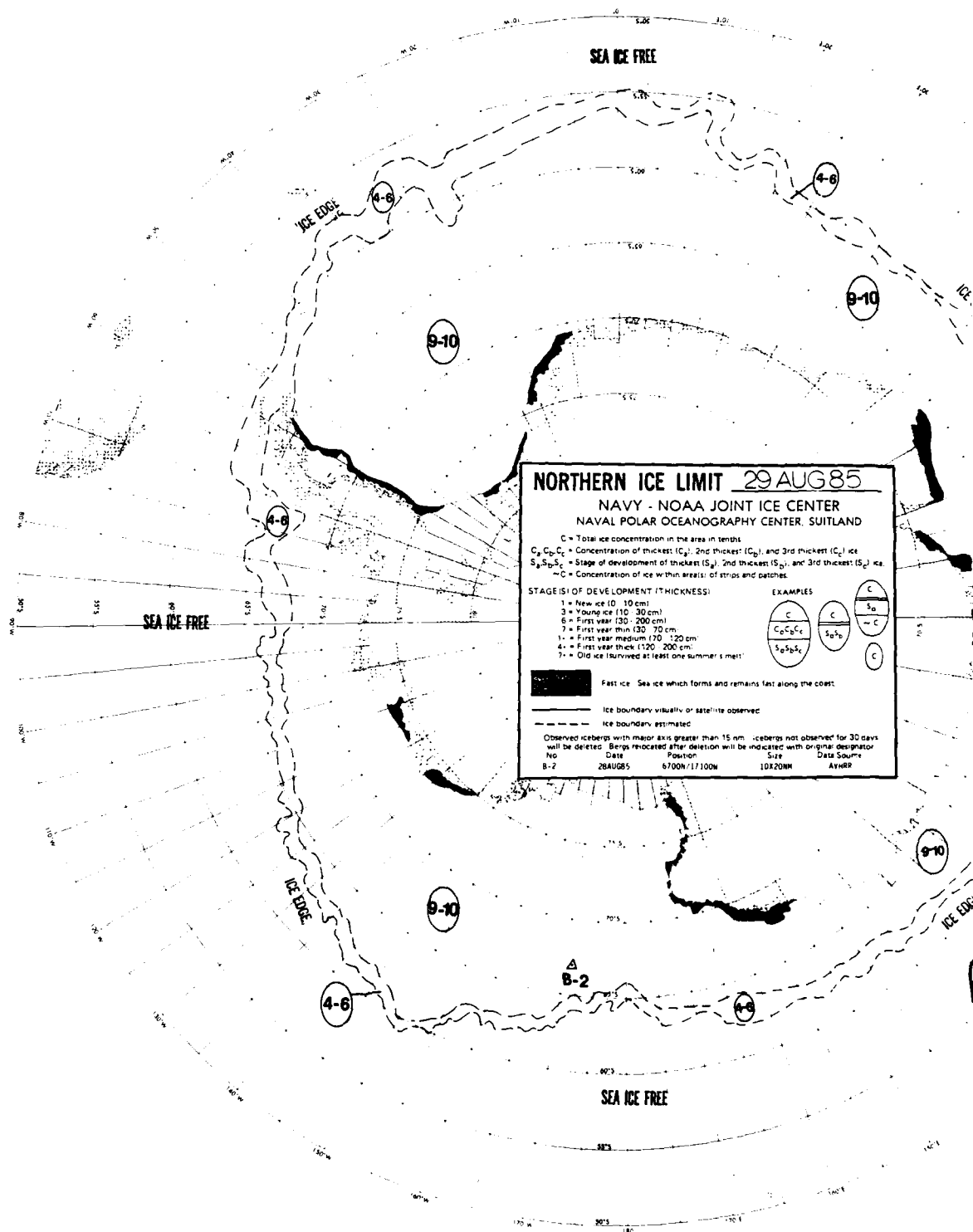
B-2

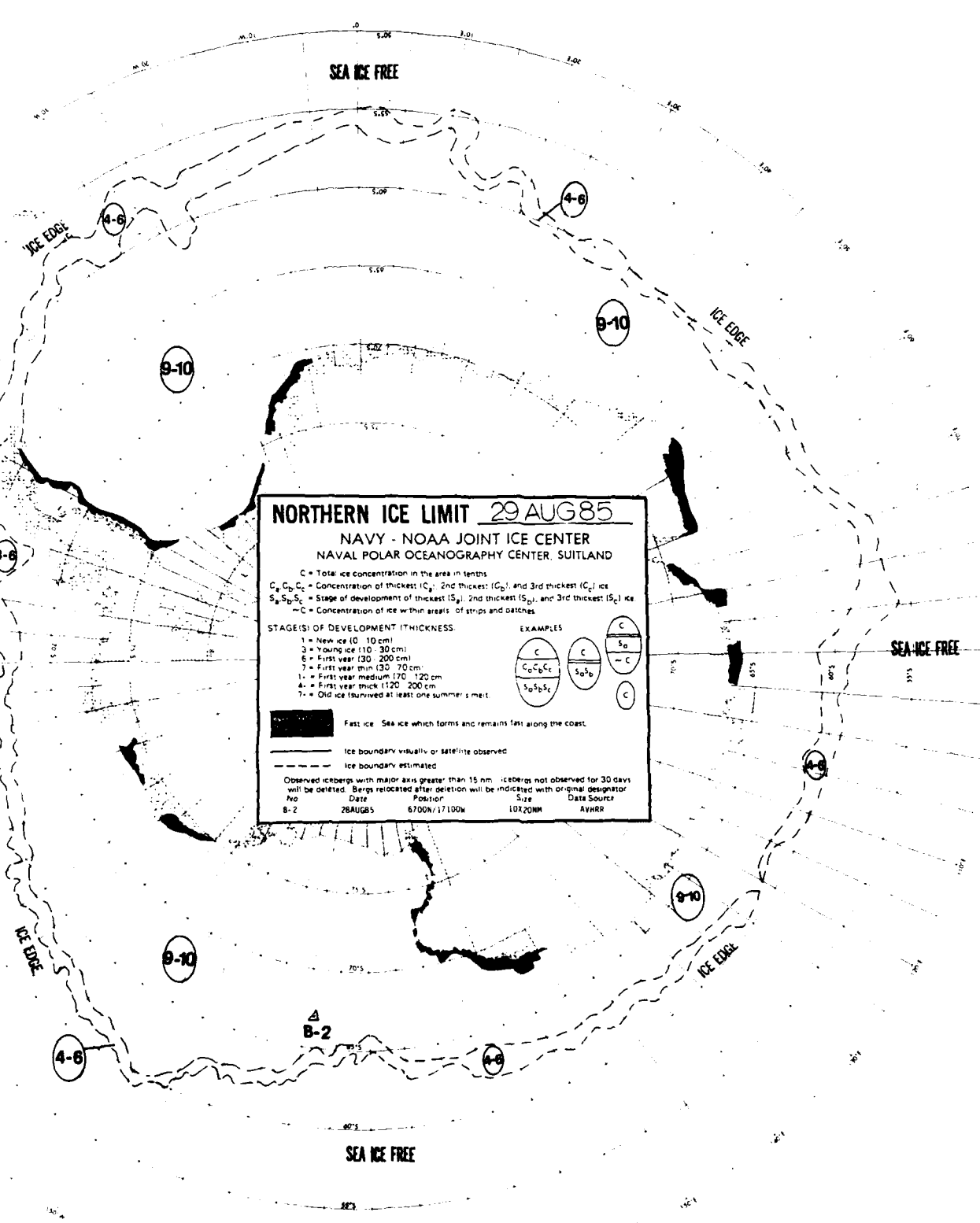
9-10

4-6

ICE EDGE

SEA ICE FREE





NORTHERN ICE LIMIT 29 AUG 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

- C = Total ice concentration in the area in tenths
 C_a, C_b, C_c = Concentration of thickest (C_a), 2nd thickest (C_b), and 3rd thickest (C_c) ice
 S_a, S_b, S_c = Stage of development of thickest (S_a), 2nd thickest (S_b), and 3rd thickest (S_c) ice
 -C = Concentration of ice within areas of strips and patches
- STAGE(S) OF DEVELOPMENT (THICKNESS)**
- 1 = New ice (0 - 10 cm)
 - 3 = Young ice (10 - 30 cm)
 - 6 = First year thin (30 - 200 cm)
 - 7 = First year thin (30 - 70 cm)
 - 1 = First year medium (70 - 120 cm)
 - 4 = First year thick (120 - 200 cm)
 - 7 = Old ice (survived at least one summer's melt)

EXAMPLES

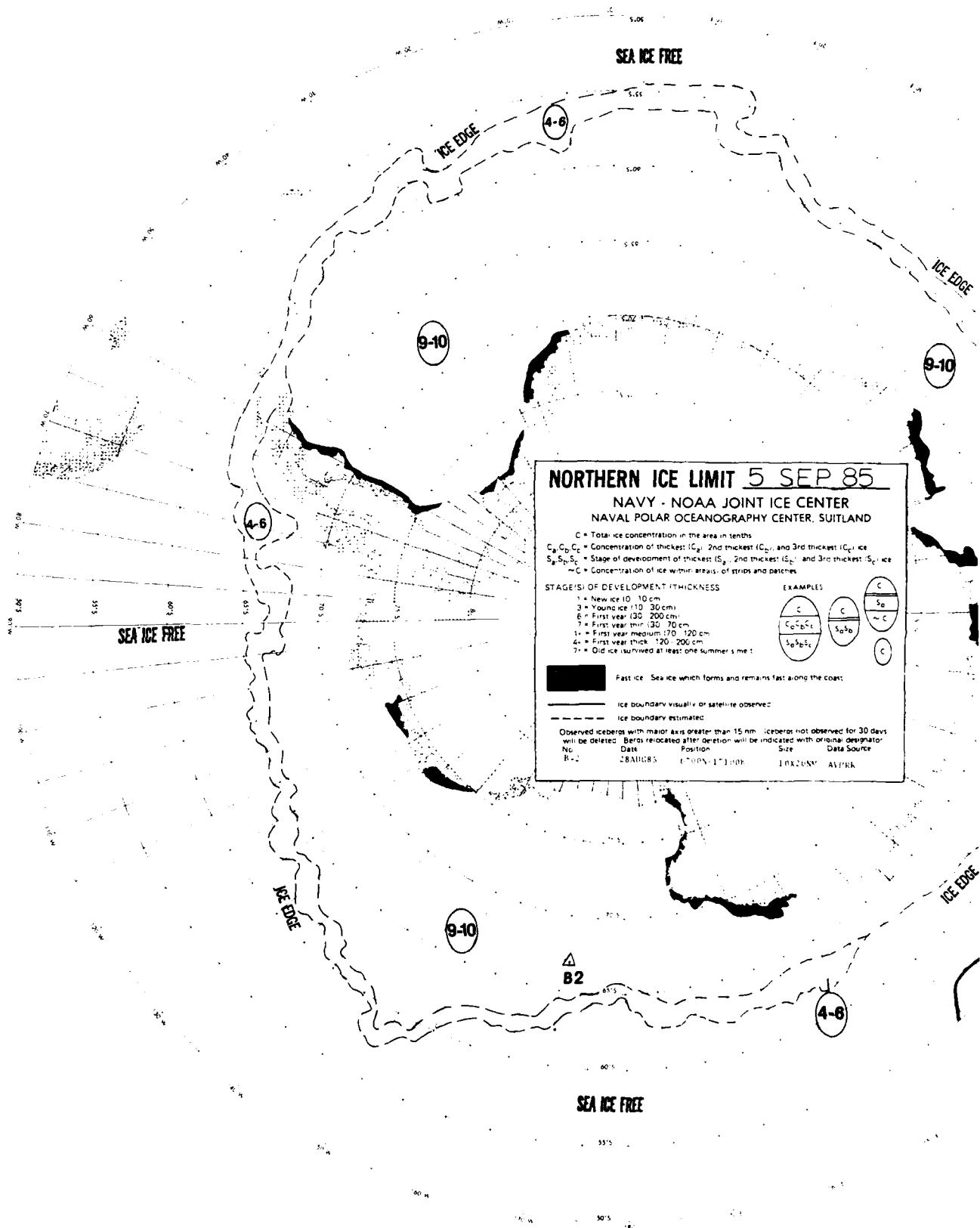


Fast ice - Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed
 Ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
B-2	28AUG85	6700N/17100W	10X20NM	AVHRR



NORTHERN ICE LIMIT 5 SEP 85

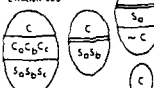
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice
S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice
-C = Concentration of ice within areas of strips and patches

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Did ice survive at least one summer's melt

EXAMPLES



Fast ice: Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed
Ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

No. Date Position Size Data Source

B-2 28 AUG 85 67°00N/171°00W 10X20NM AVT/RK

B2

SEA ICE FREE

SEA ICE FREE

ICE EDGE

9-10

9-10

4-6

4-6

9-10

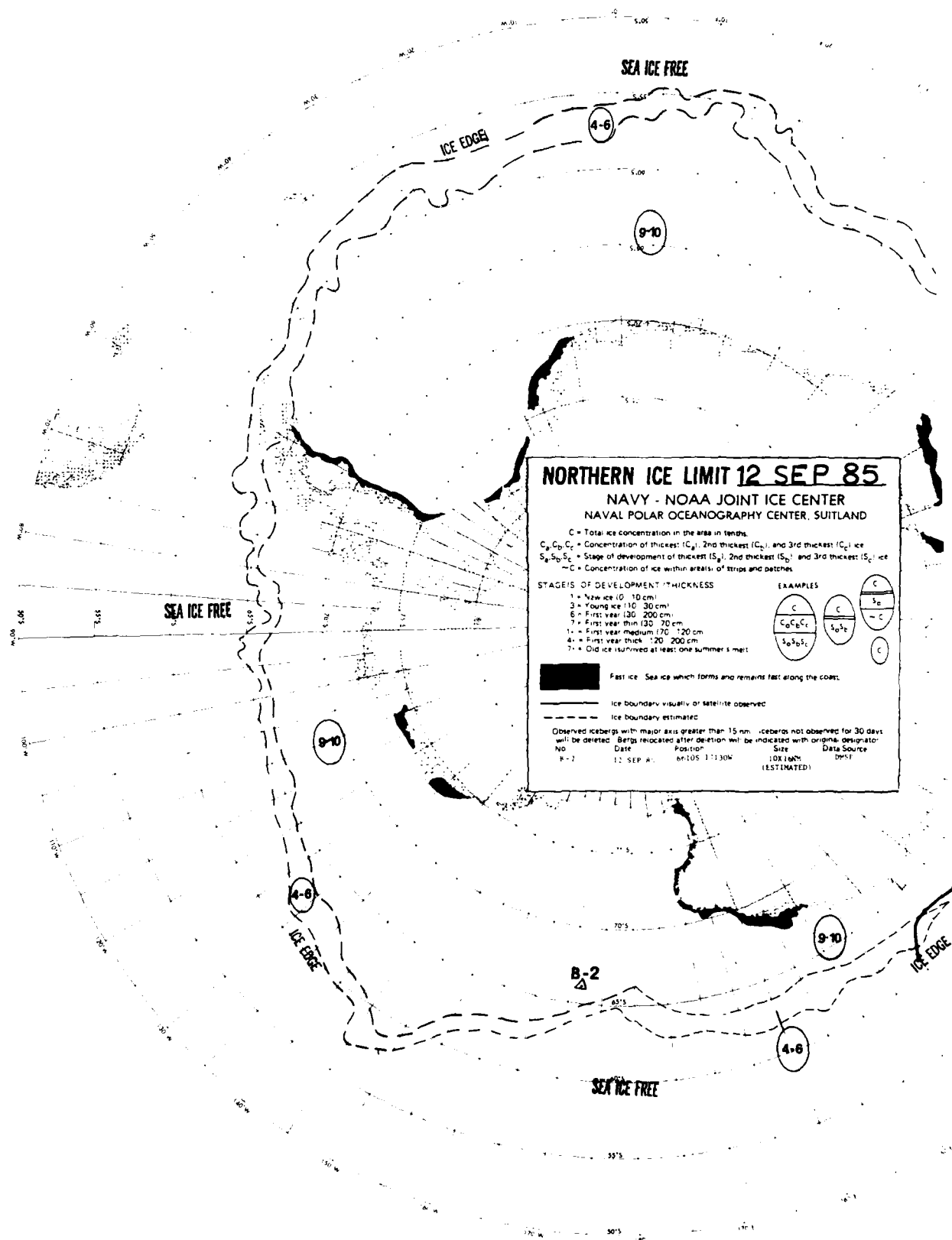
4-6

SEA ICE FREE

ICE EDGE

ICE EDGE

ICE EDGE



SEA ICE FREE

ICE EDGE

4-6

9-10

ICE EDGE

9-10

SEA ICE FREE

NORTHERN ICE LIMIT 12 SEP 85

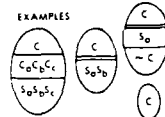
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
C₁C₂C₃ = Concentration of thickest (C₁), 2nd thickest (C₂) and 3rd thickest (C₃) ice
S₁S₂S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂) and 3rd thickest (S₃) ice
-C = Concentration of ice within areas of strips and patches

STAGES OF DEVELOPMENT - THICKNESS

- 1 = New ice 10 - 30 cm
- 3 = Young ice 30 - 70 cm
- 6 = First year thin (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 9 = First year medium (70 - 200 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice survived at least one summer's melt

EXAMPLES



Fast ice - Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed

Ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
B-2	12 SEP 85	60°05' 173°30'	10X16NM (ESTIMATED)	DMSP

B-2

4-6

SEA ICE FREE

ICE EDGE

ICE EDGE

9-10

4-6

9-10

SEA ICE FREE

SEA ICE FREE

ICE EDGE

ICE EDGE

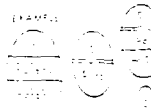
NORTHERN ICE LIMIT 19 SEPT 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

1. Total ice concentration in the area is zero.
2. 0-49% Concentration of thickness 0-100 cm.
3. 50-99% Stage of development of thickness 0-100 cm.
4. 100% Concentration of thickness 0-100 cm.
5. 100% Concentration of thickness 100-200 cm.
6. 100% Concentration of thickness 200-300 cm.

STAGE OF DEVELOPMENT THICKNESS

- 1. New ice 0-10 cm
- 2. Young ice 10-30 cm
- 3. First year 30-100 cm
- 4. First year 100-200 cm
- 5. First year 200-300 cm
- 6. Old ice 300 cm and over



Fast ice: Sea ice which forms and remains in the same place.
Ice boundaries: Line of ice edge.
Ice boundary: Estimated.
Concentrations with the prefix 'water' mean that the ice is in the water and will be melted. Percentages of ice in the water will be printed. Percentages of ice in the water will be printed.
Date: _____ Position: _____ Date Source: _____
By: _____

ICE EDGE

ICE ET

B-2

SEA ICE FREE

2-4

9-10

4-6

9-10

9-10

4-6

4-6

SEA ICE FREE

4-6

ICE EDGE

9-10

9-10

ICE EDGE

NORTHERN ICE LIMIT 19 SEPT 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice
 mC = Concentration of ice within areas of strips and patches

STAGES OF DEVELOPMENT BY THICKNESS

- 1 = New ice (0-10 cm)
- 2 = Young ice (10-30 cm)
- 3 = First year (30-200 cm)
- 4 = First year thin (30-90 cm)
- 5 = First year medium (90-120 cm)
- 6 = First year thick (120-200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES



Fast ice - Sea ice which forms and remains fast along the coast

Ice boundary visually or satellite observed

Ice boundary estimated

Observed icebergs with major axis greater than 15 m (and not observed for 30 days) will be deleted. Bergs relocated after deletion will be indicated with original designation.

No.	Date	Position	Size	Data Source
100	10 SEP 85	66° 15' N 150° 15' W	1000 m	ESTIMATED

SEA ICE FREE

4-6

9-10

ICE EDGE

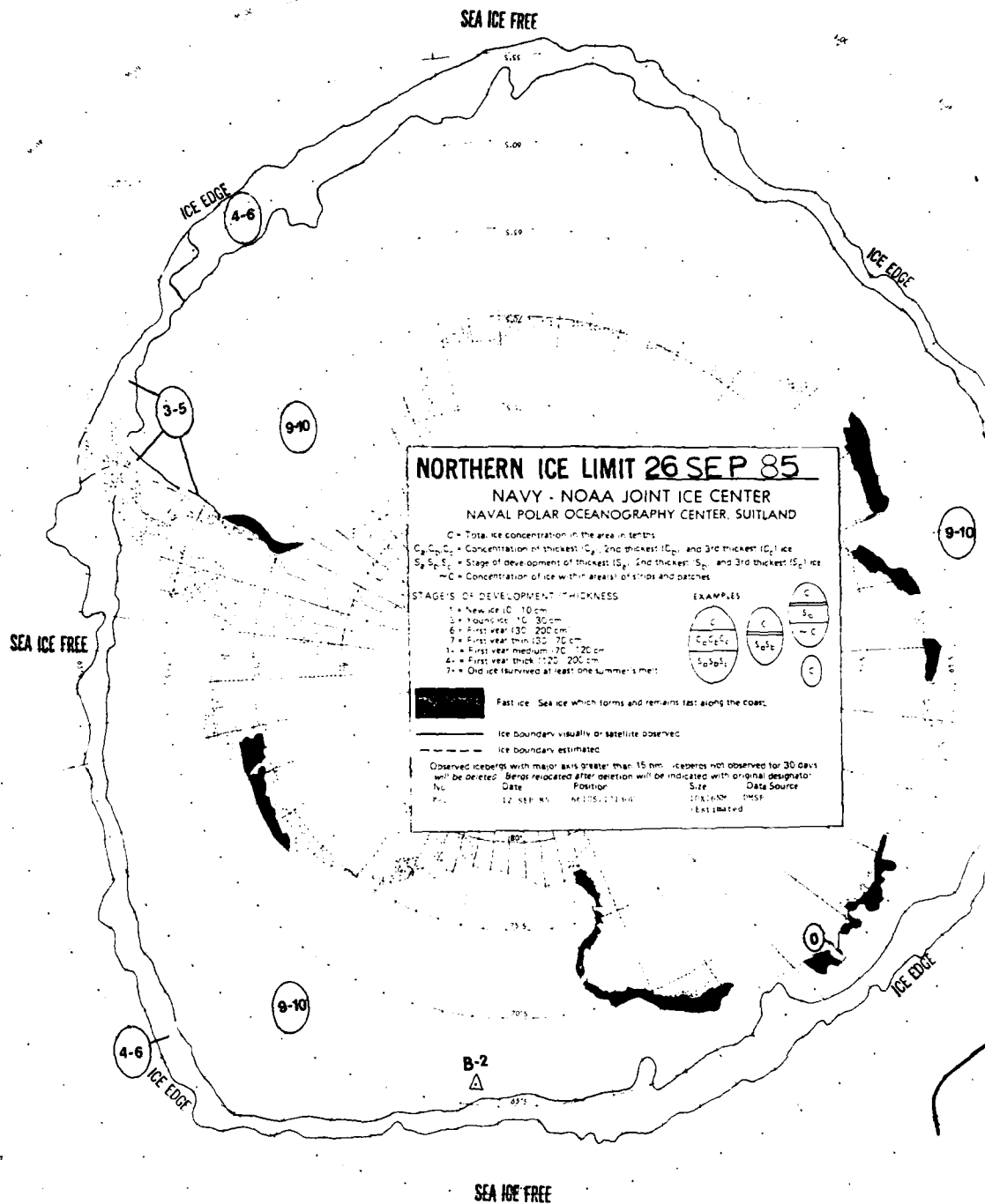
9-10

4-6

B-2

SEA ICE FREE

4-6



NORTHERN ICE LIMIT 26 SEP 85
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
 C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
 S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
 C = Concentration of ice within areal of strips and patches

STAGES OF DEVELOPMENT (THICKNESS)

- 1 = New ice (10-30 cm)
- 2 = Young ice (30-100 cm)
- 3 = First year thin (100-200 cm)
- 4 = First year medium (200-400 cm)
- 5 = First year thick (400-600 cm)
- 6 = Old ice (survived at least one summer's melt)

EXAMPLES

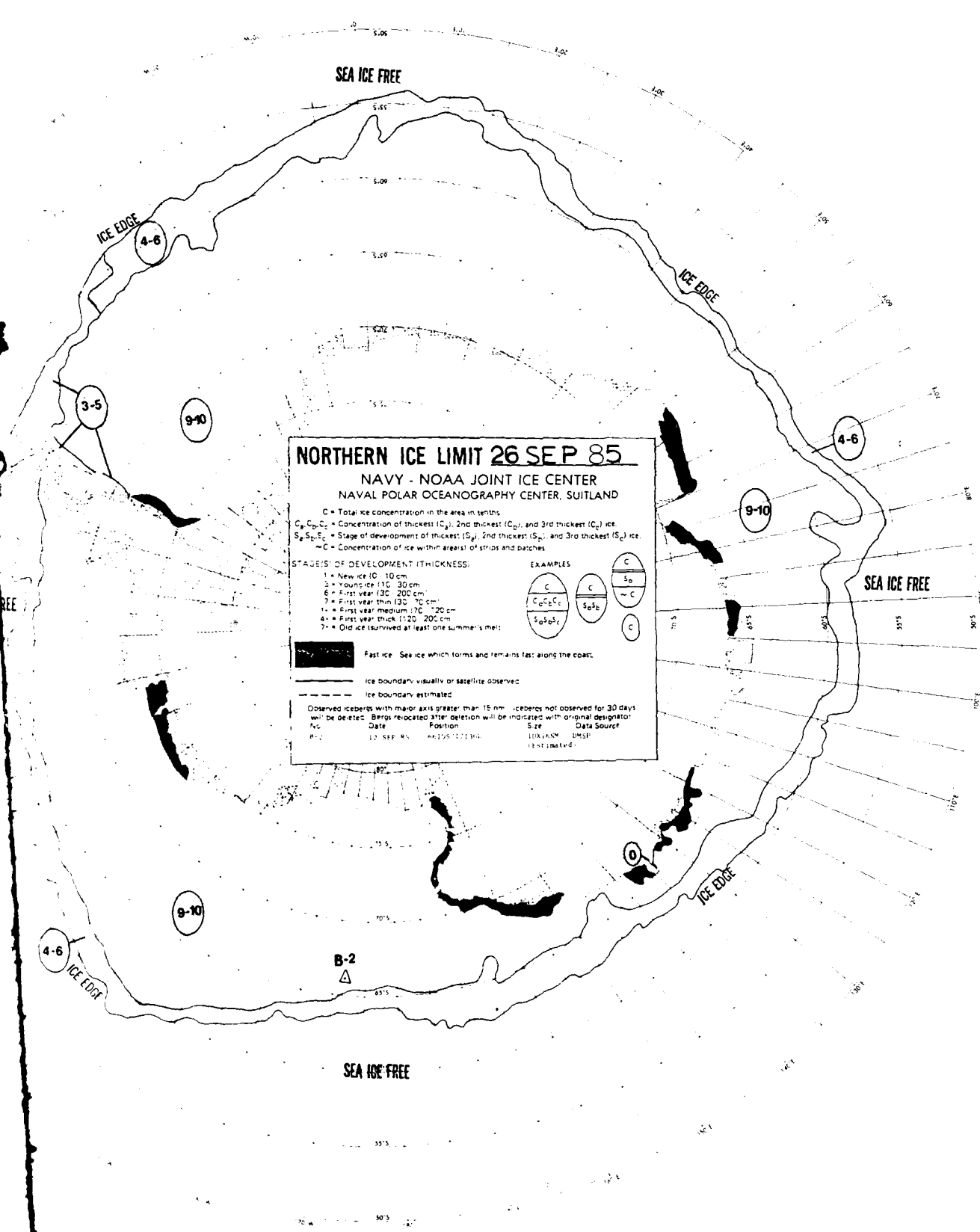
$\frac{C}{C_1 C_2 C_3}$	$\frac{C}{S_1 S_2 S_3}$	$\frac{C}{C}$
-------------------------	-------------------------	---------------

Legend:

- Fast ice - See ice which forms and remains fast along the coast.
- Ice boundary visually or satellite observed
- Ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

B-2	Date	Position	Size	Data Source
	12 SEP 85	ARLPS 121304	100 x 150	DMSP
				Estimated



SEA ICE FREE

9-10

4-6

ICE EDGE

SEA ICE FREE

NORTHERN ICE LIMIT 03 OCT 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice
 W = Concentration of ice within areas of strips and patches

STAGE OF DEVELOPMENT THICKNESS

- 1 = New ice 10-18 cm
- 3 = Young ice 18-30 cm
- 6 = First year 30-200 cm
- 7 = First year thick 30-70 cm
- 1+ = First year medium 70-120 cm
- 4+ = First year thick 120-200 cm
- 7+ = Old ice survived at least one summer or more

EXAMPLES

Fast ice: Sea ice which forms and remains fast along the coast.

_____ ice boundary visually observed
- - - - - ice boundary estimated

Observed icebergs with major axis greater than 15 nm; icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

Inc	Date	Position	Size	Data Source
-----	------	----------	------	-------------

[illegible]

9-10

8-10

731

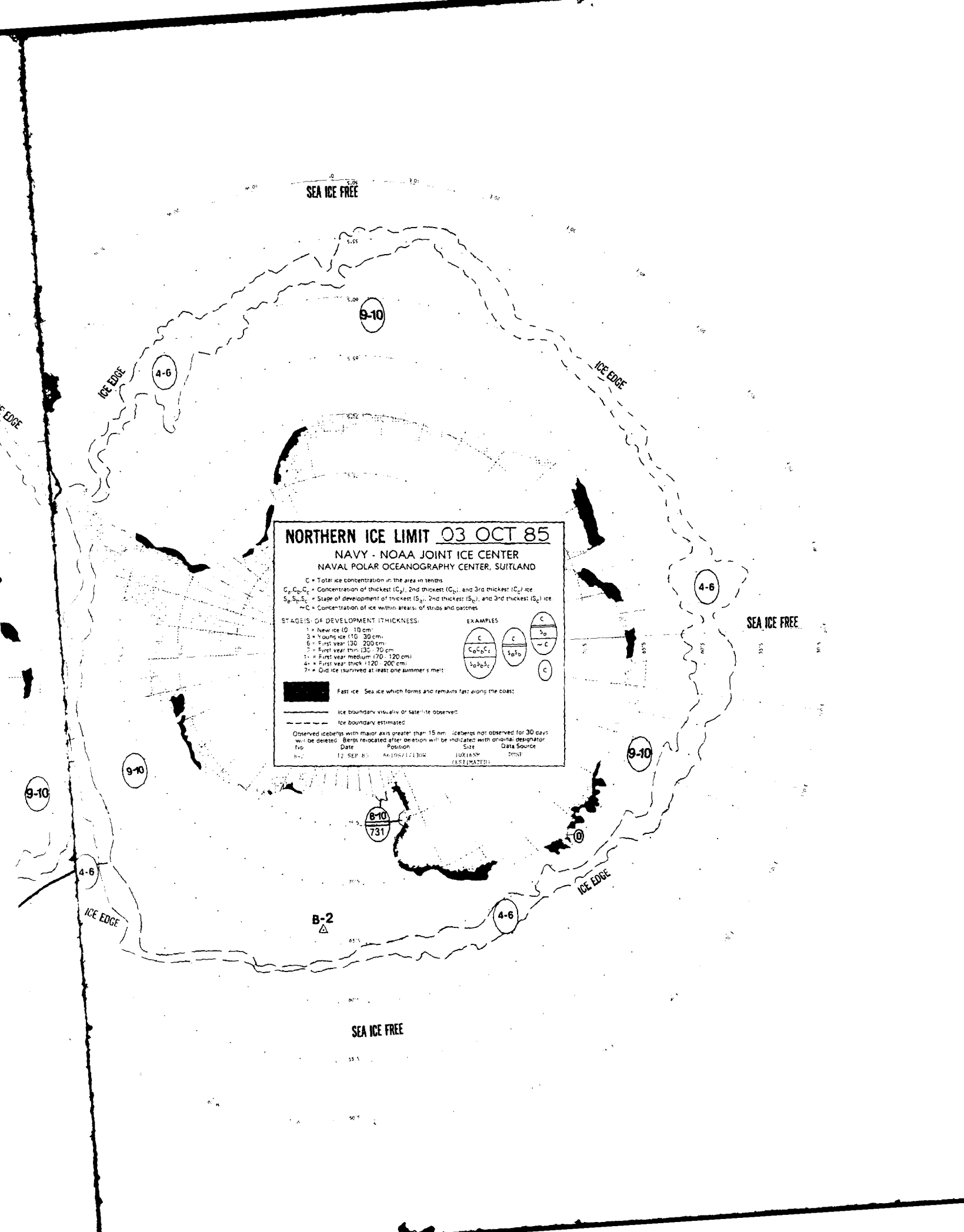
4-6

ICE EDGE

B-2

4-6

SEA ICE FREE

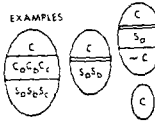


NORTHERN ICE LIMIT 03 OCT 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

- C = Total ice concentration in the area in tenths
C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice
S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice
~C = Concentration of ice within areas of strips and patches
- STAGE OF DEVELOPMENT (THICKNESS):
- 1 = New ice (0 - 10 cm)
 - 2 = Young ice (10 - 30 cm)
 - 3 = First year (30 - 200 cm)
 - 4 = First year thin (30 - 70 cm)
 - 5 = First year medium (70 - 120 cm)
 - 6 = First year thick (120 - 200 cm)
 - 7 = Old ice (survived at least one summer's melt)

EXAMPLES



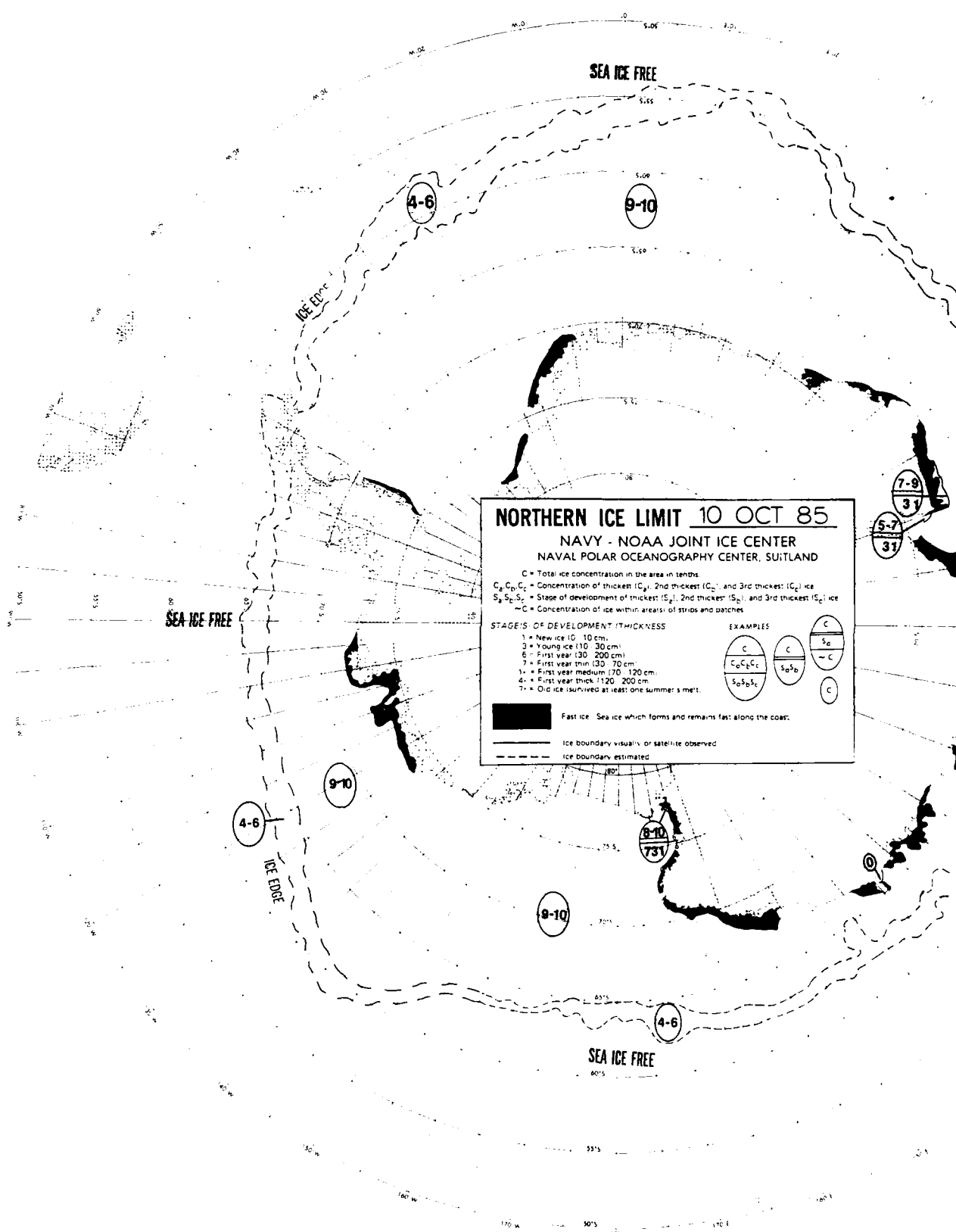
Fast ice - Sea ice which forms and remains fast along the coast

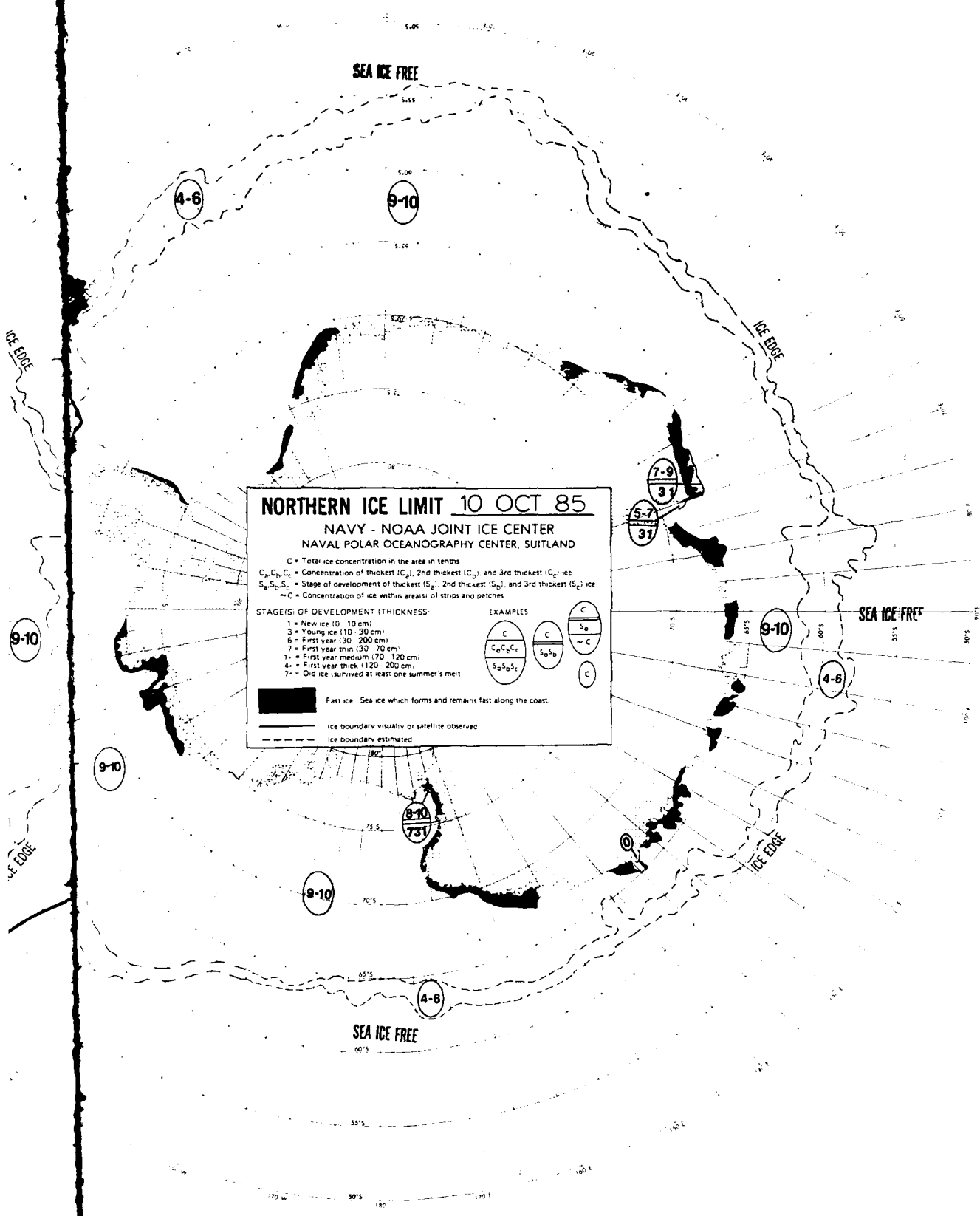
Ice boundary visually or satellite observed

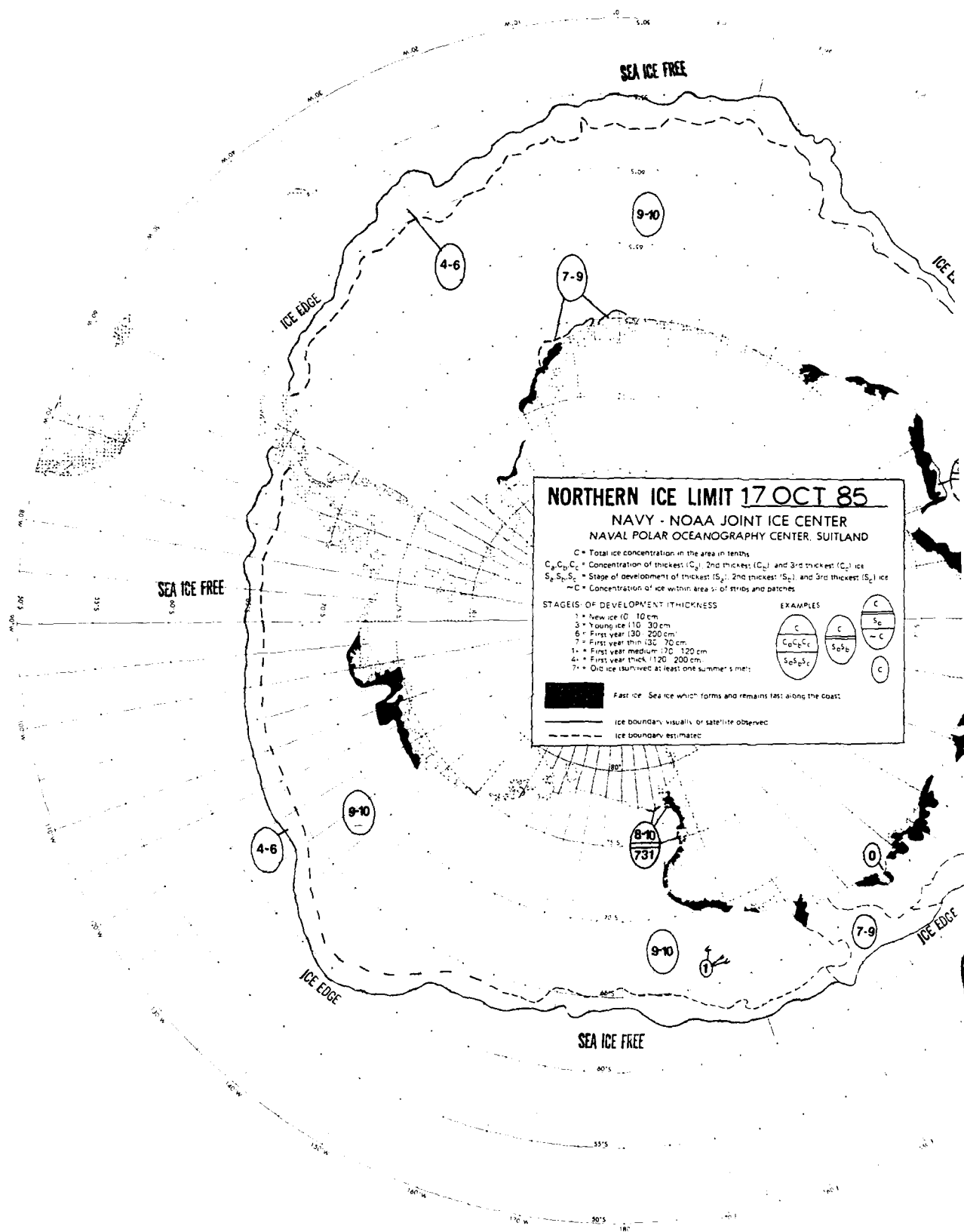
Ice boundary estimated

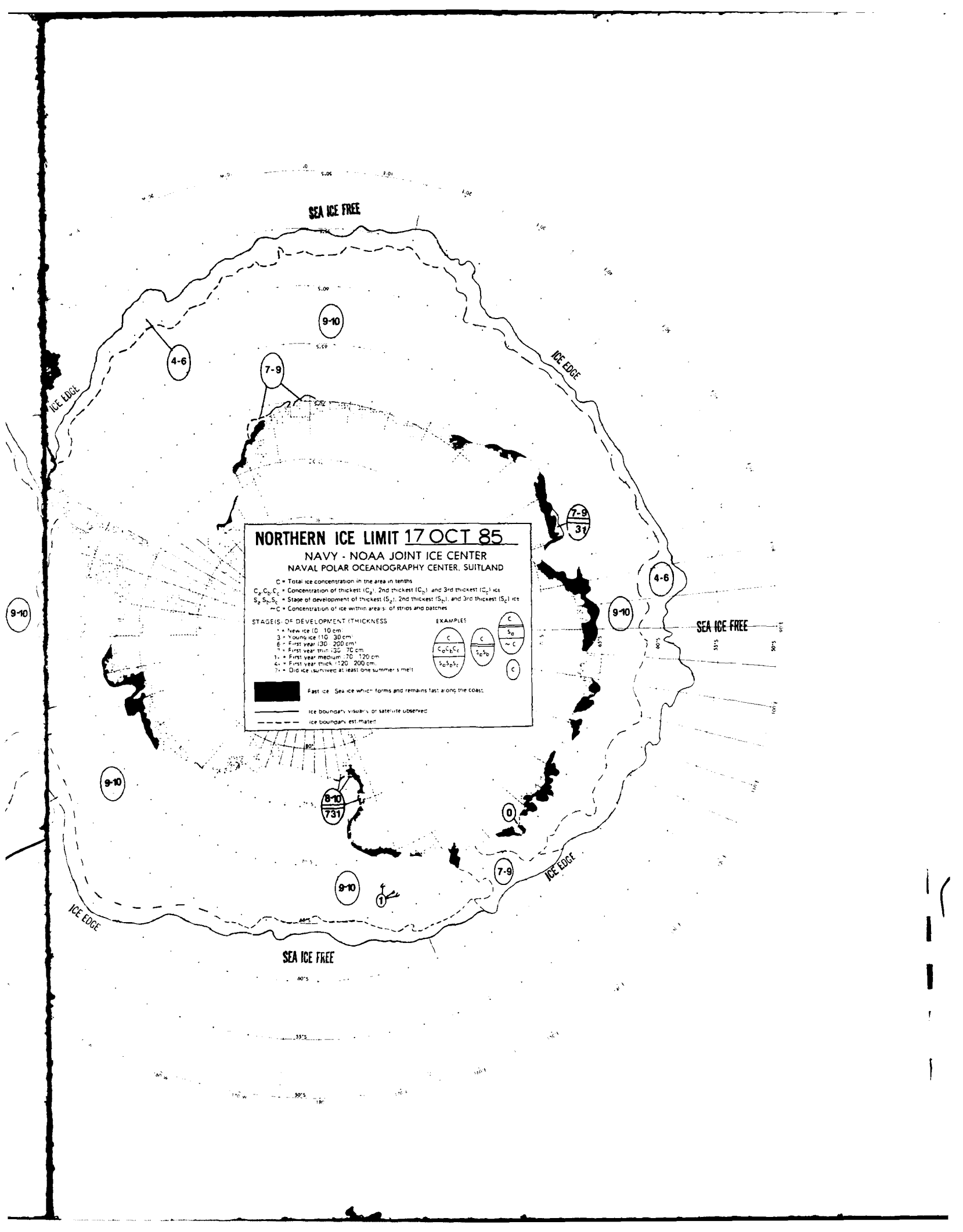
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

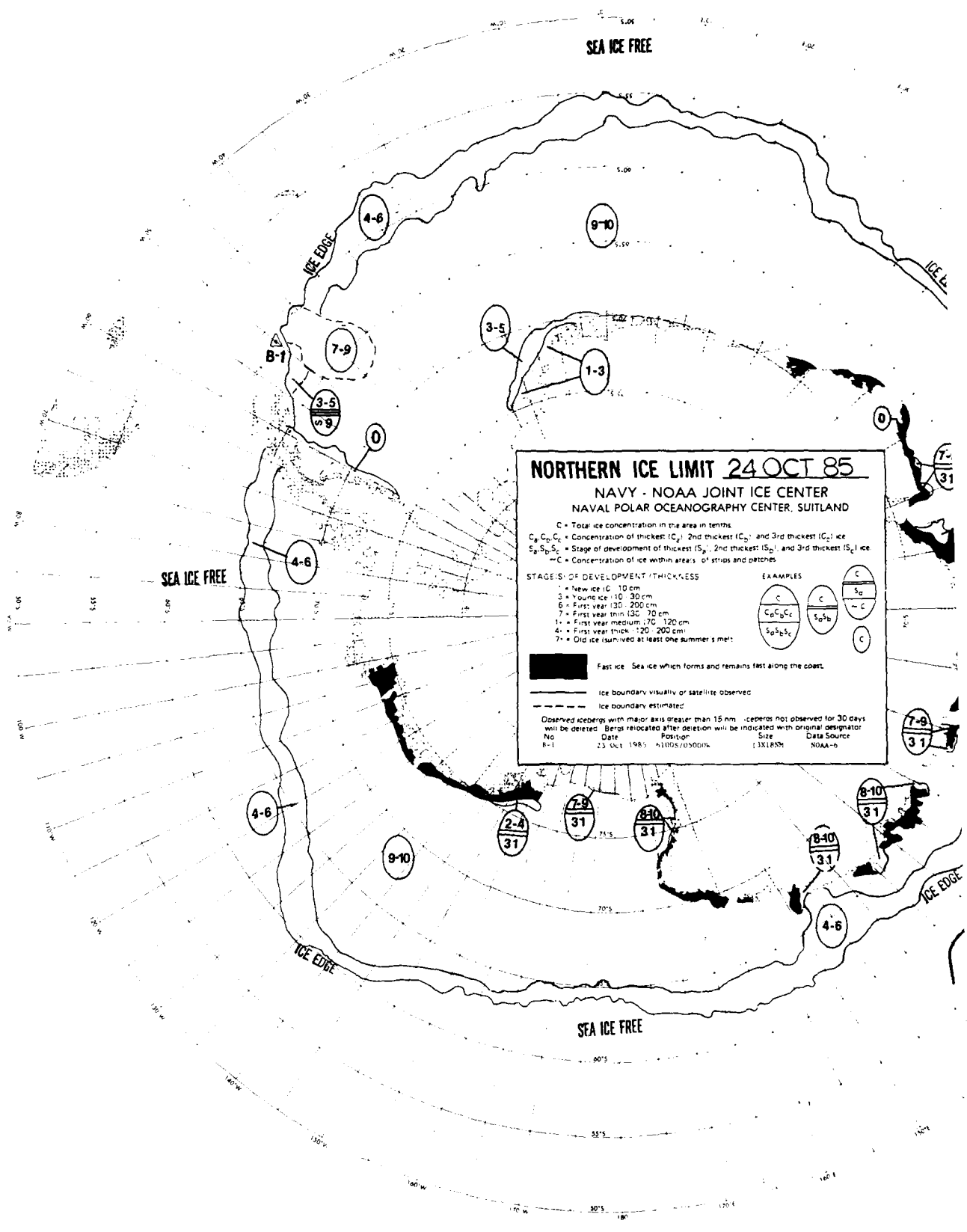
File	Date	Position	Size	Data Source
12 SEP 85	4610N/12130W	1000M	200M	(ESTIMATED)

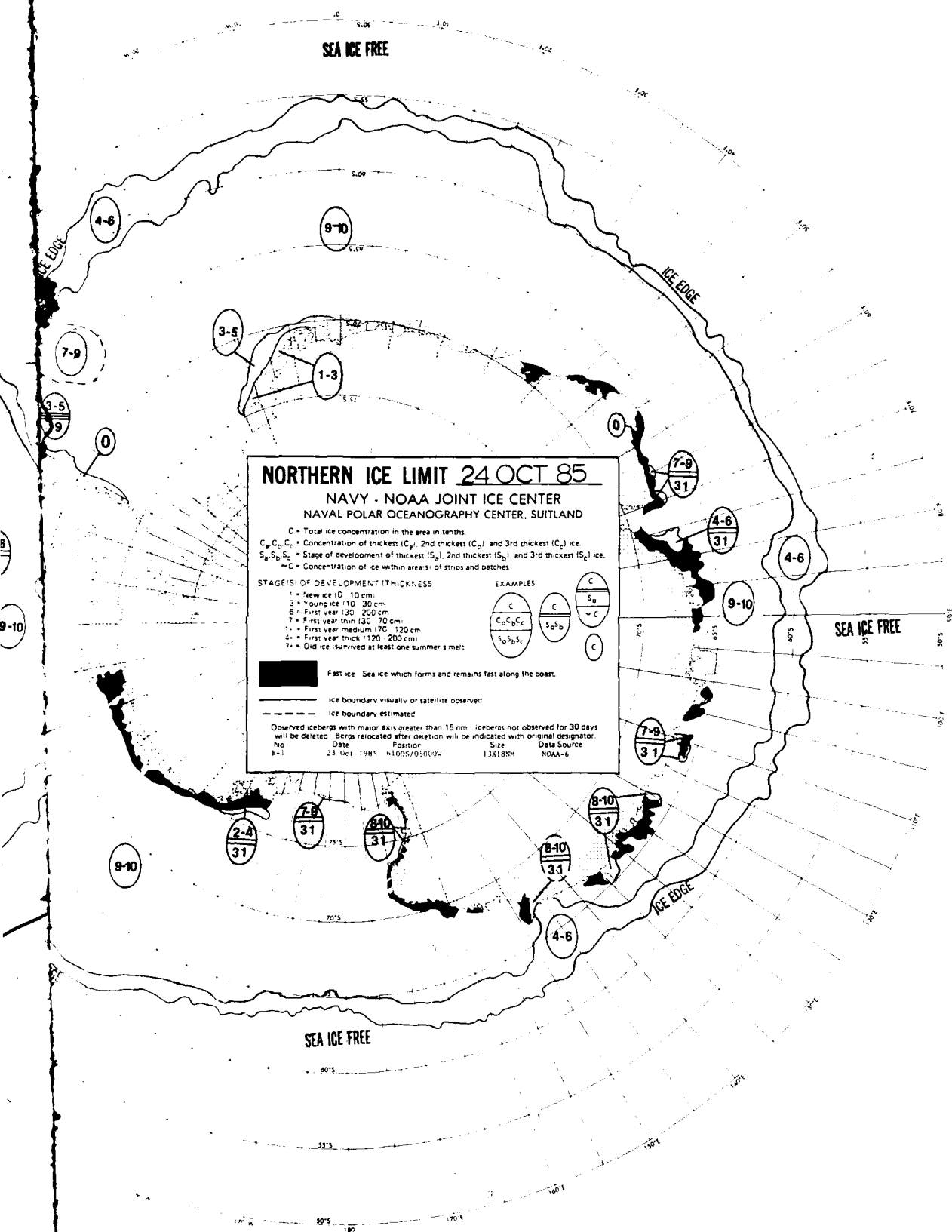












SEA ICE FREE

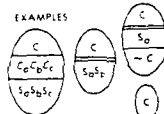
SEA ICE FREE

NORTHERN ICE LIMIT 31 OCT 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

- C = Total ice concentration in the area in tenths
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice
 - C = Concentration of ice within areas of strips and patches
- STAGES OF DEVELOPMENT BY THICKNESS
- 1 = New ice 10-30 cm
 - 2 = First year 30-70 cm
 - 3 = First year 70-120 cm
 - 4 = First year 120-200 cm
 - 5 = Old ice survived at least one summer's melt

EXAMPLES

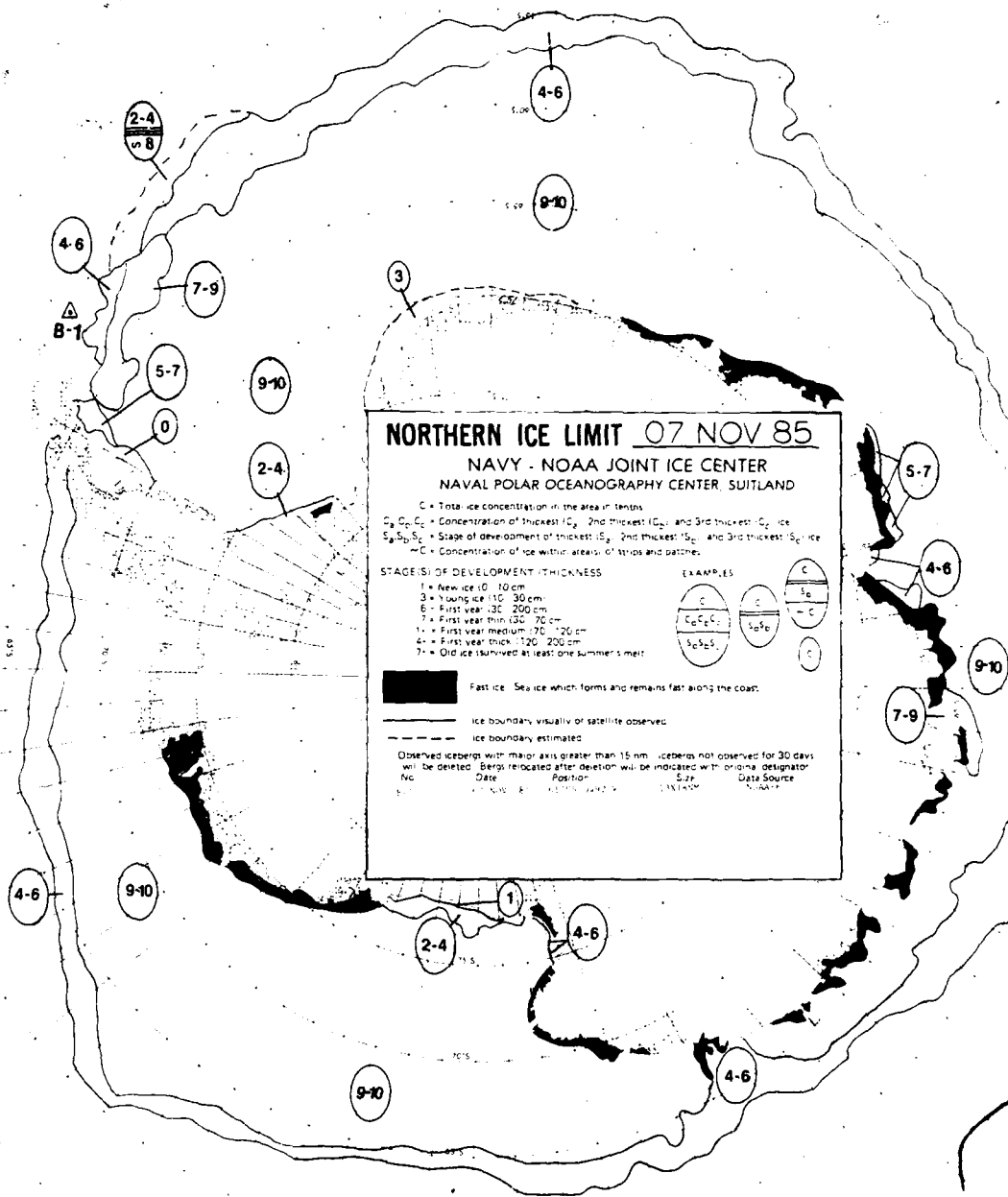


Fast ice - Sea ice which forms and remains fast along the coast.
 --- Ice boundary visually or satellite observed
 - - - - - Ice boundary estimated
 Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs indicated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
101	24 OCT 1985	61°15'N 150°00'W	1 X 1.5 NM	NOAA-7

SEA ICE FREE

SEA ICE FREE



NORTHERN ICE LIMIT 07 NOV 85

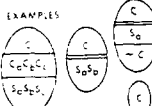
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
C₁ C₂ C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice
S₁ S₂ S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice
C = Concentration of ice within area's of strips and patches

STAGE S OF DEVELOPMENT BY THICKNESS

- 1 = New ice 10-16 cm
- 3 = Young ice 16-33 cm
- 6 = First year 33-200 cm
- 7 = First year thin 130-70 cm
- 1 = First year medium 70-120 cm
- 4 = First year thick 120-200 cm
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES



Fast ice - Sea ice which forms and remains fast along the coast.

--- ice boundary visually or satellite observed
--- ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

NO Date Position Size Data Source

NO Date Position Size Data Source

NO Date Position Size Data Source

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NO Date Position Size Data Source

SEA ICE FREE

SEA ICE FREE

SEA ICE FREE

NORTHERN ICE LIMIT 14 NOV 85

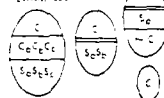
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths
C₁C₂C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice
S₁S₂S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice
W = Concentration of ice within areas of strips and patches

STAGES OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0-10 cm)
- 2 = Young ice (10-30 cm)
- 3 = First year (30-200 cm)
- 4 = First year thin (30-70 cm)
- 5 = First year medium (70-120 cm)
- 6 = First year thick (120-200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES



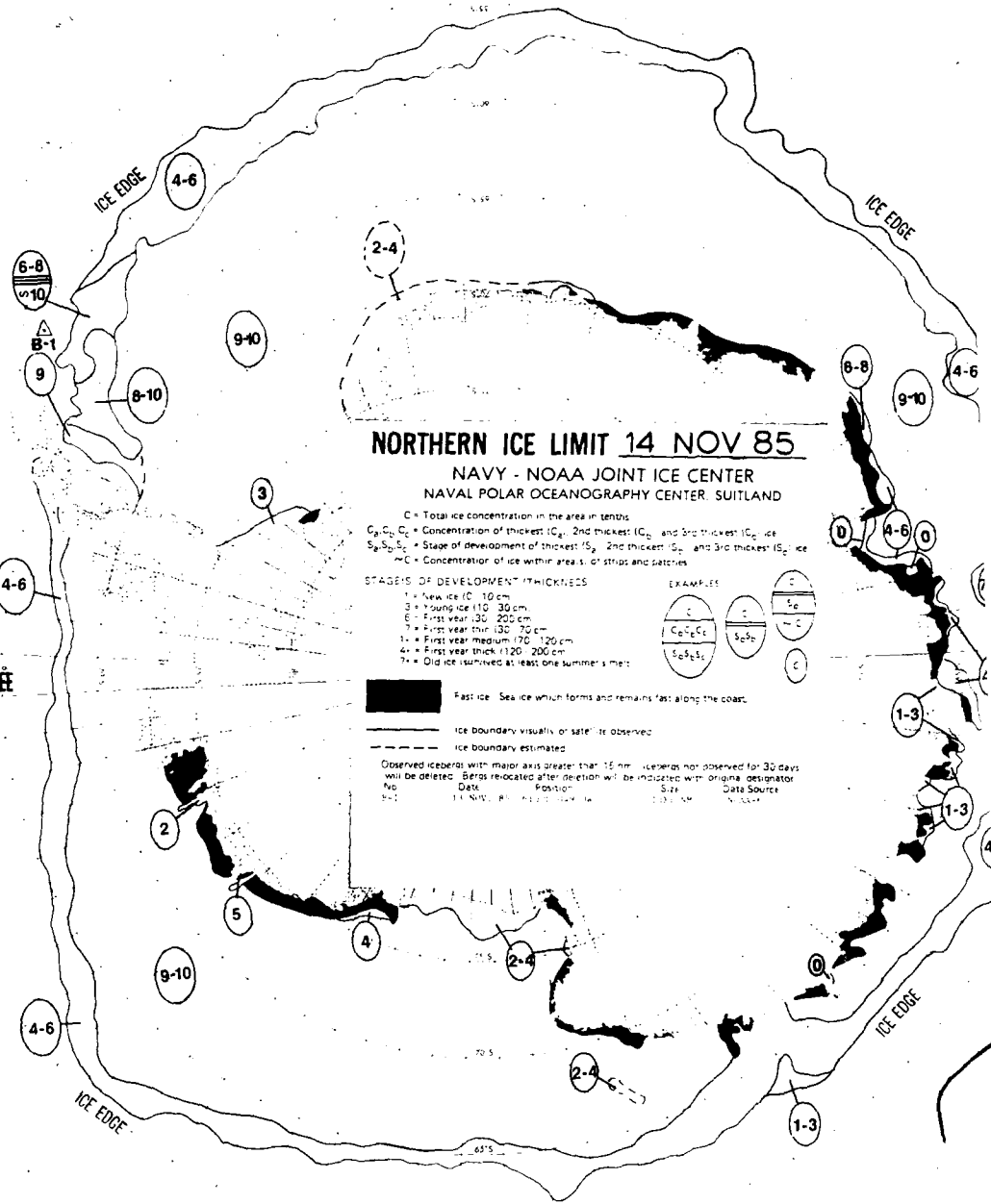
Fast ice: Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed

Ice boundary estimated

Observed icebergs with major axis greater than 15 m (icebergs not observed for 30 days will be deleted). Bergs re-located after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
5-1	14 NOV 85	61° 15' N 150° 15' W	100 x 150 m	NOAA

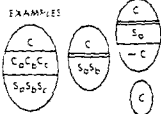


SEA ICE FREE

NORTHERN ICE LIMIT 14 NOV 85

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

- C = Total ice concentration in the area in tenths.
C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
~C = Concentration of ice within areas of strips and patches.
- STAGES OF DEVELOPMENT (THICKNESS)
- 1 = New ice (0 - 10 cm)
 - 2 = Young ice (10 - 30 cm)
 - 3 = First year (30 - 200 cm)
 - 4 = First year thin (20 - 70 cm)
 - 5 = First year medium (70 - 120 cm)
 - 6 = First year thick (120 - 200 cm)
 - 7 = Old ice (survived at least one summer's melt)



Fast ice: Sea ice which forms and remains fast along the coast.

Ice boundary visually or satellite observed
Ice boundary estimated

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

No	Date	Position	Size	Data Source
1-3	14 NOV 85	60°N 150°W	100000	NOAA

SEA ICE FREE

SEA ICE FREE

AD-A184 102

ANTARCTIC ICE CHARTS 1985-1986(U) NAVAL POLAR
OCEANOGRAPHY CENTER WASHINGTON DC AUG 87

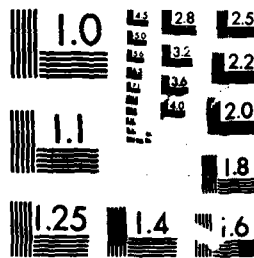
2/3

UNCLASSIFIED

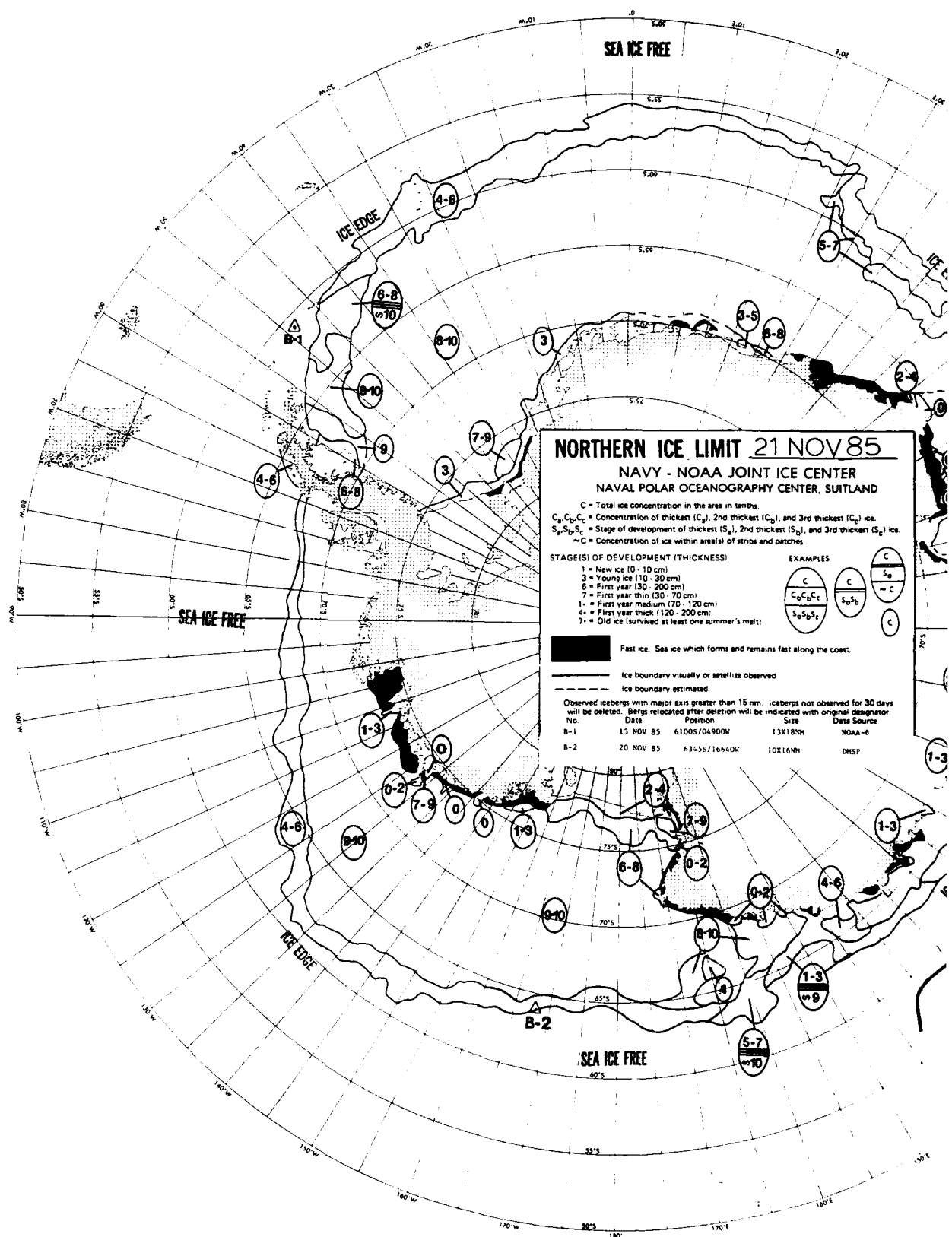
F/G 3/12

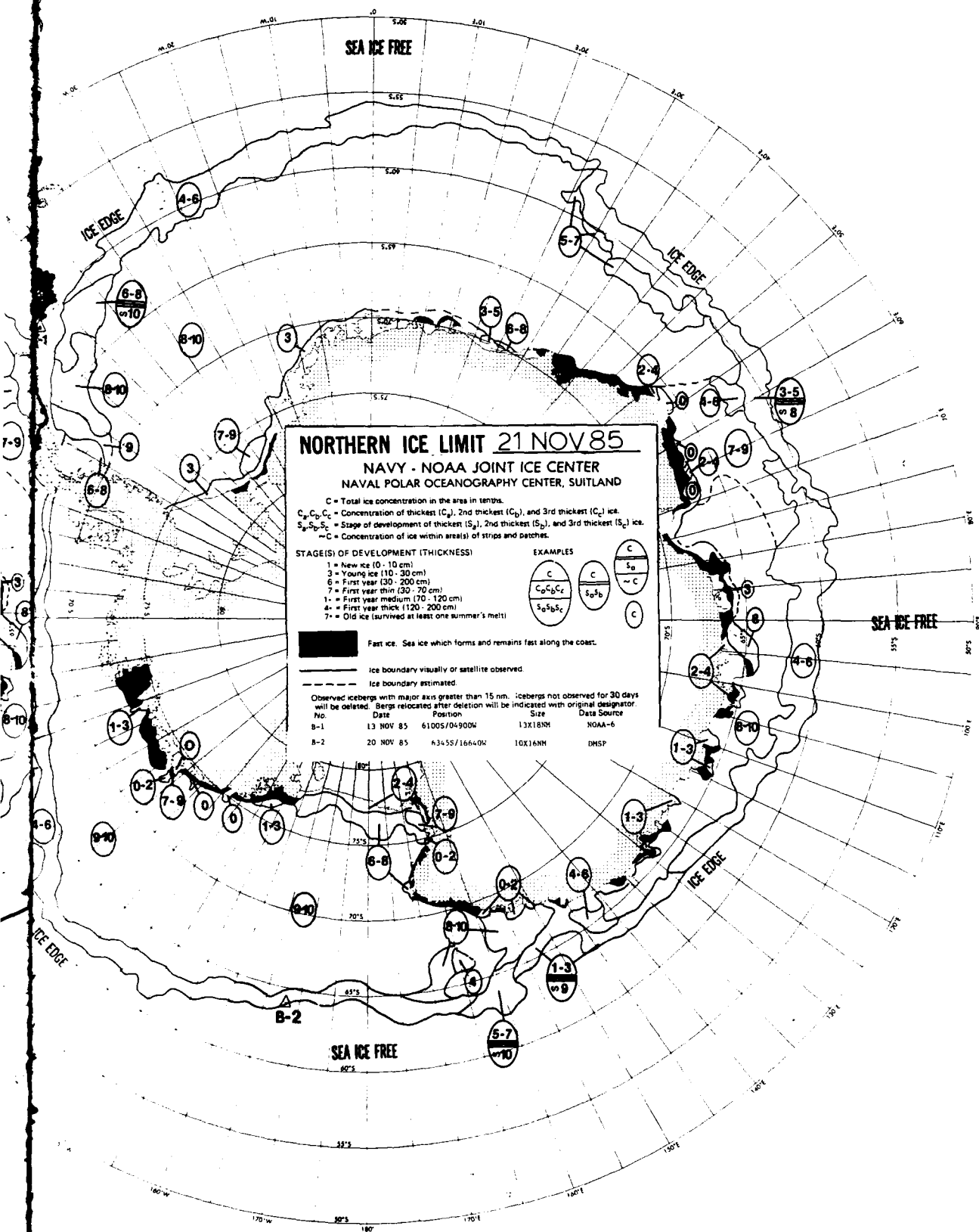
NL

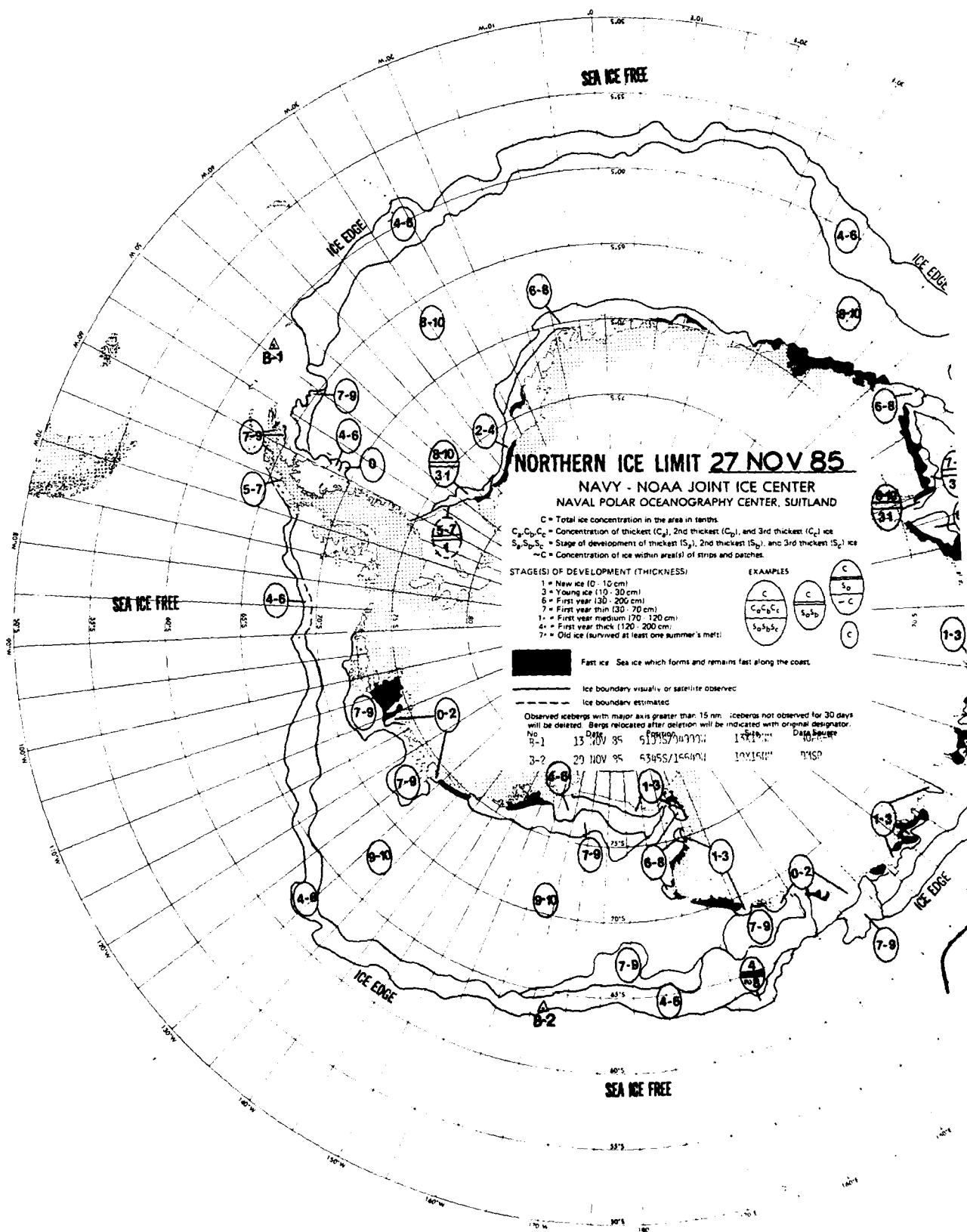


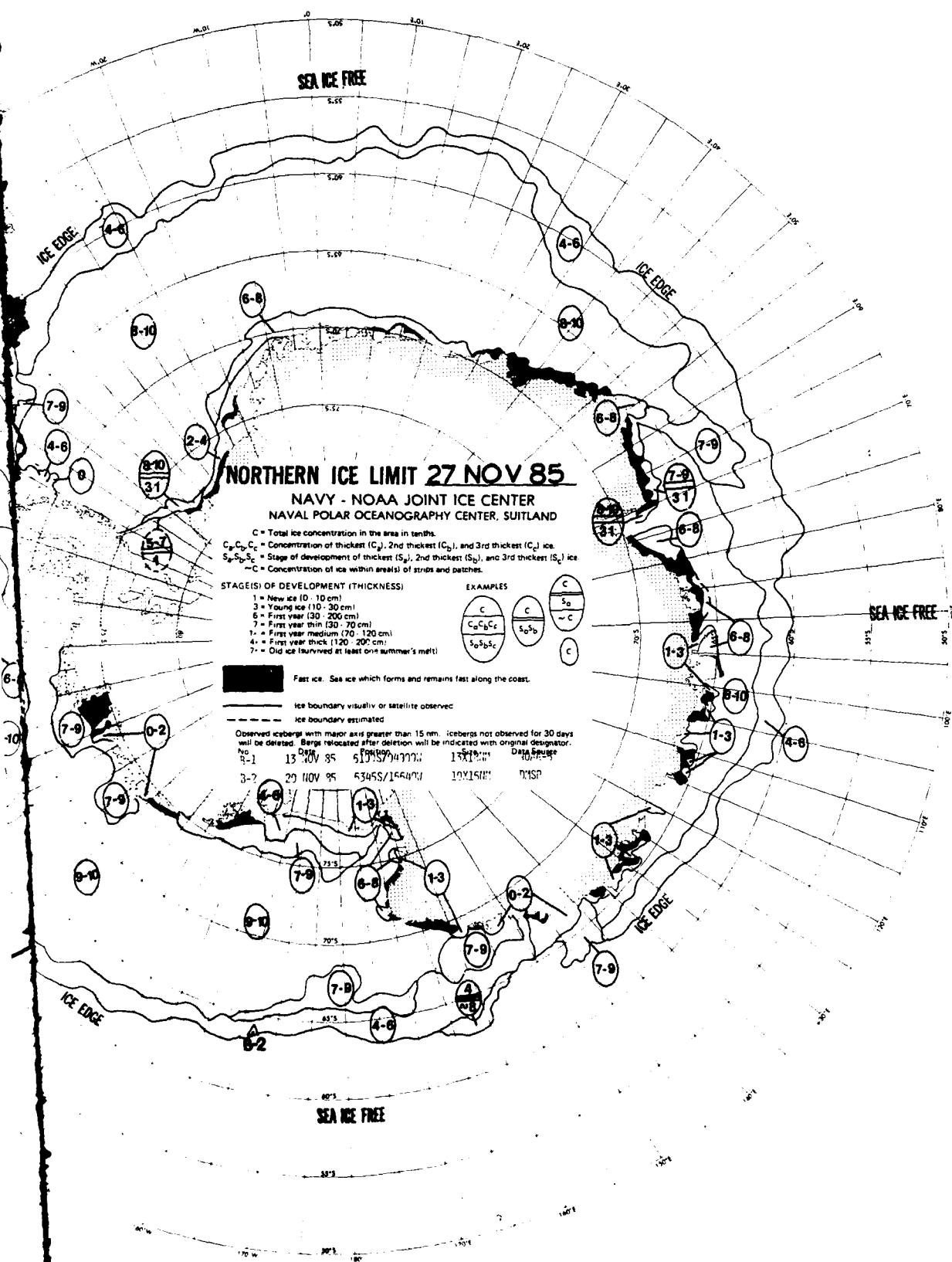


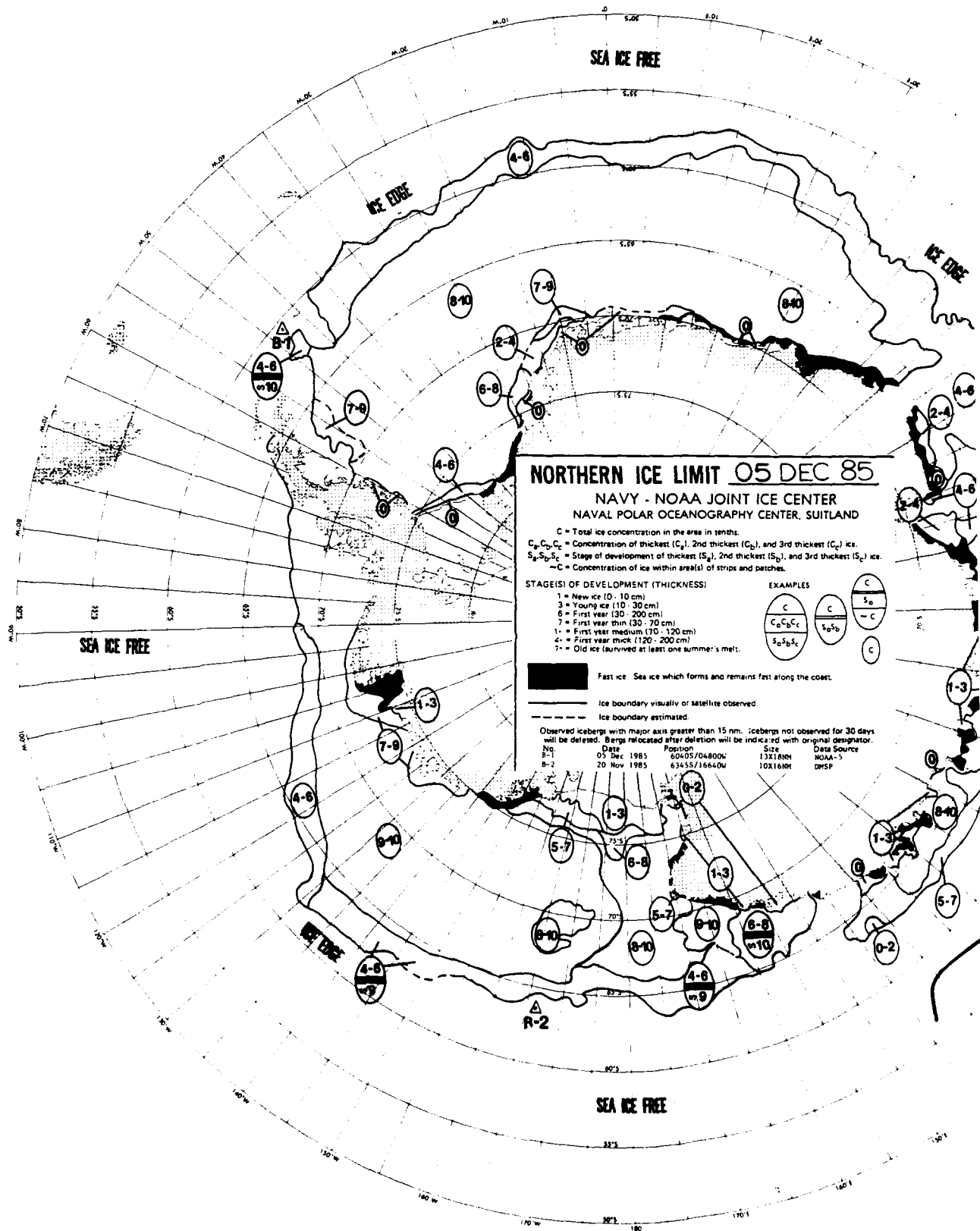
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

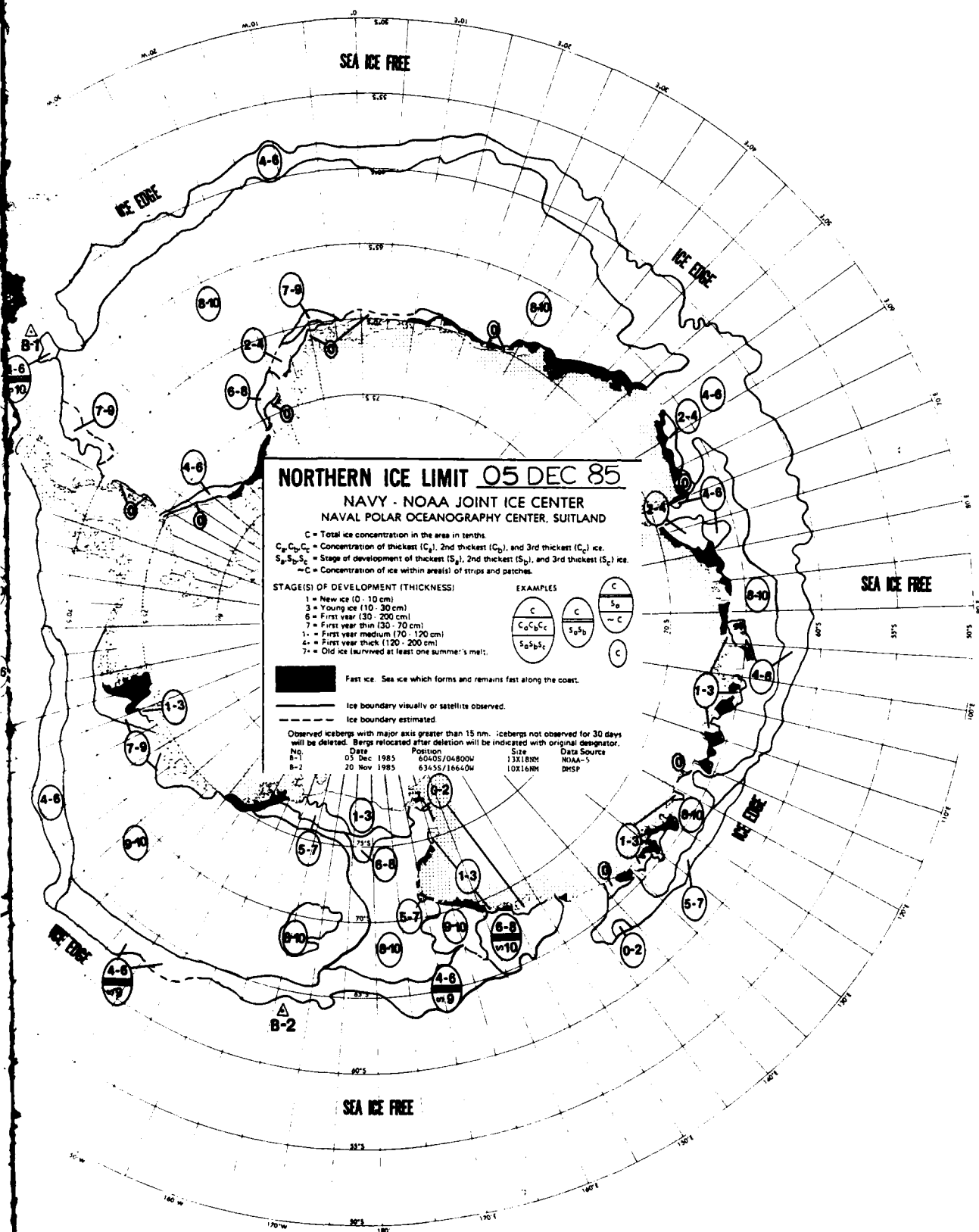


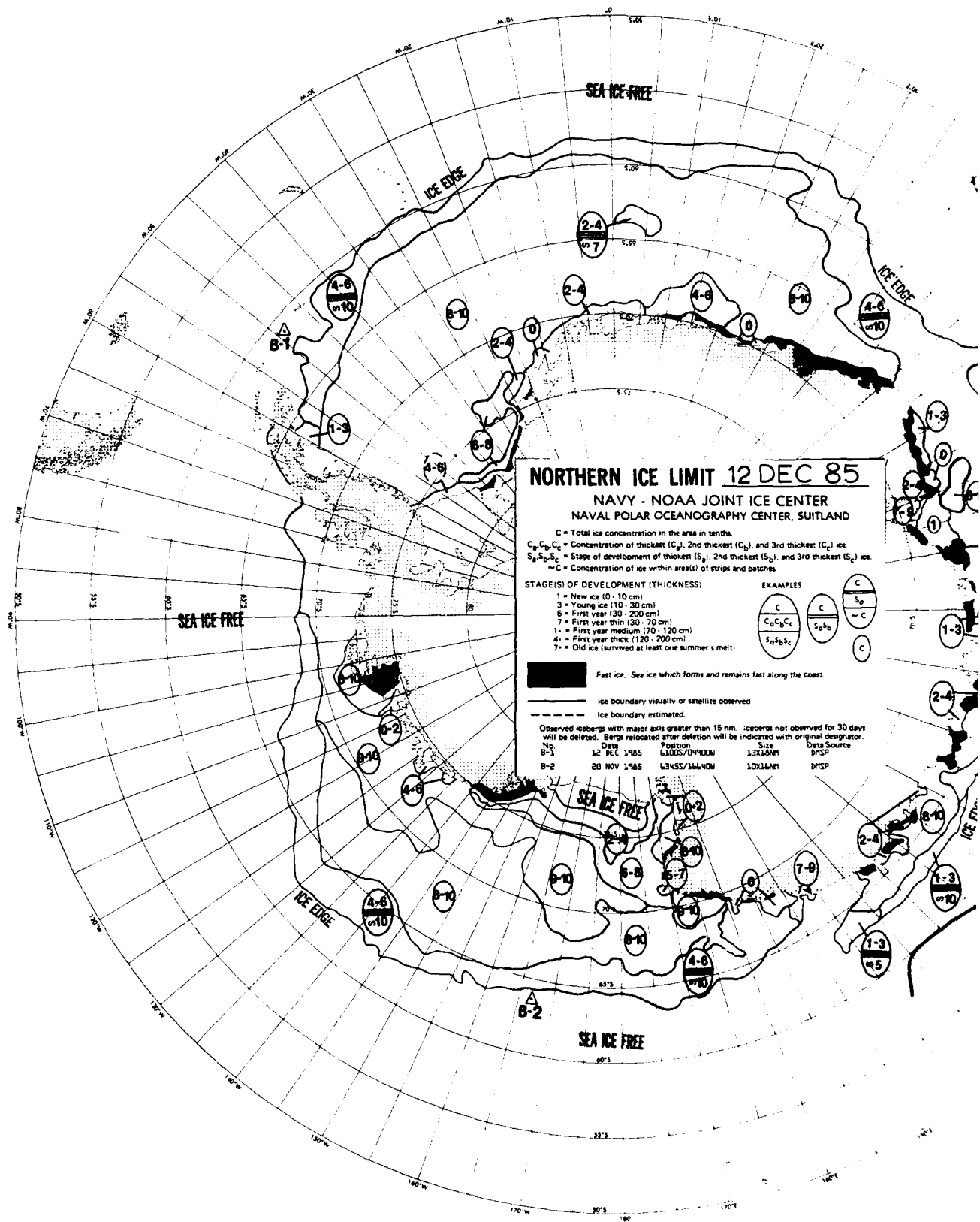


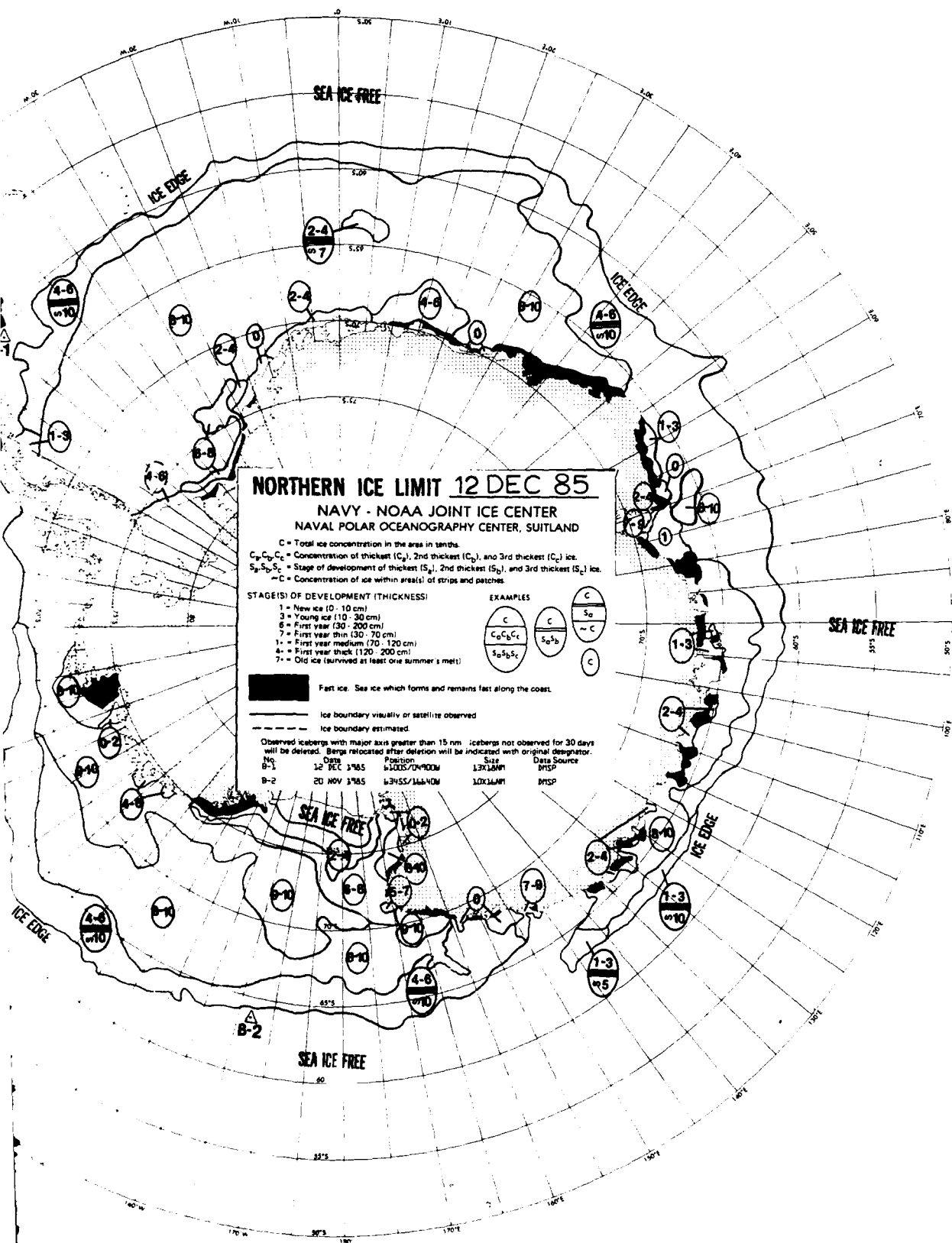


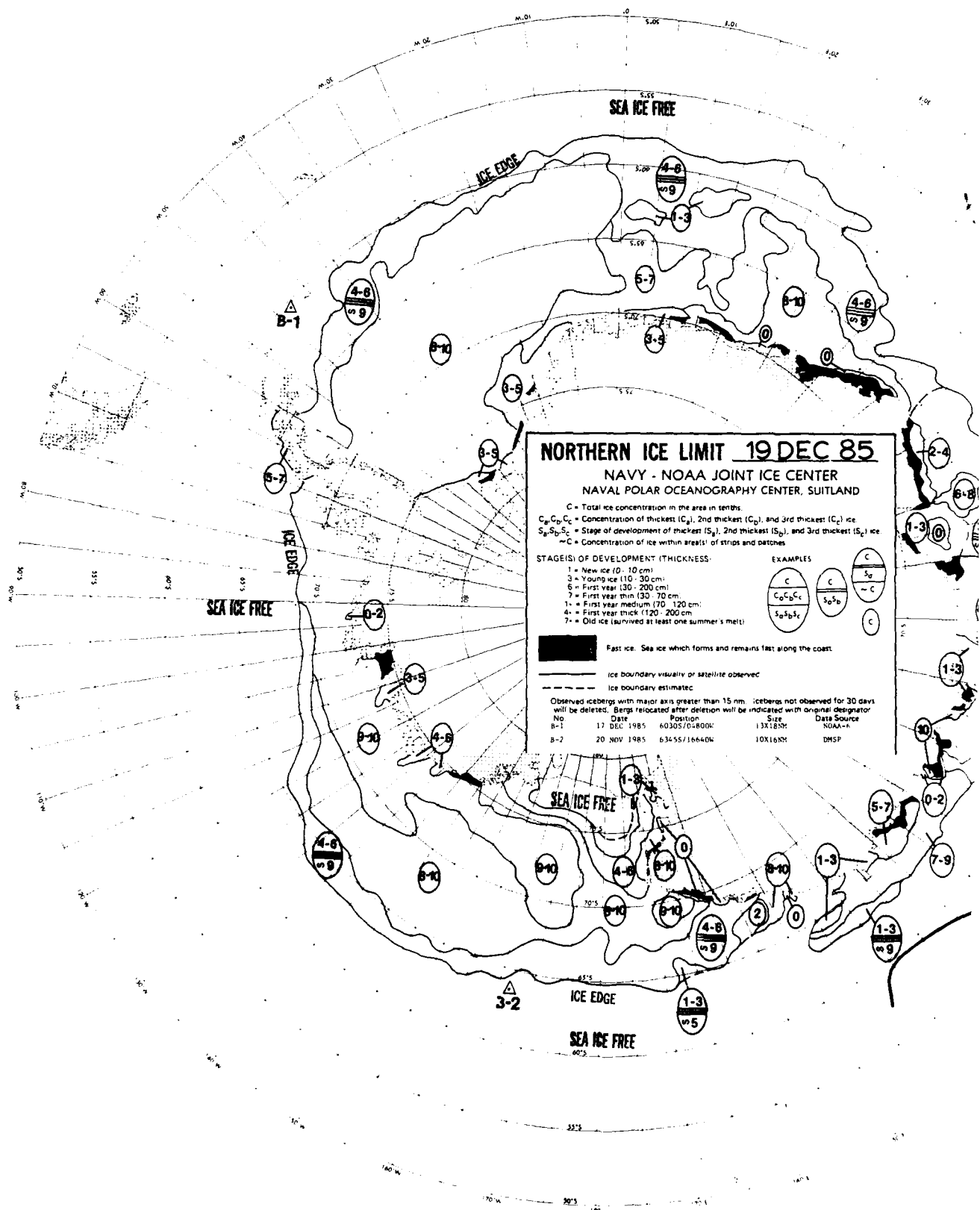


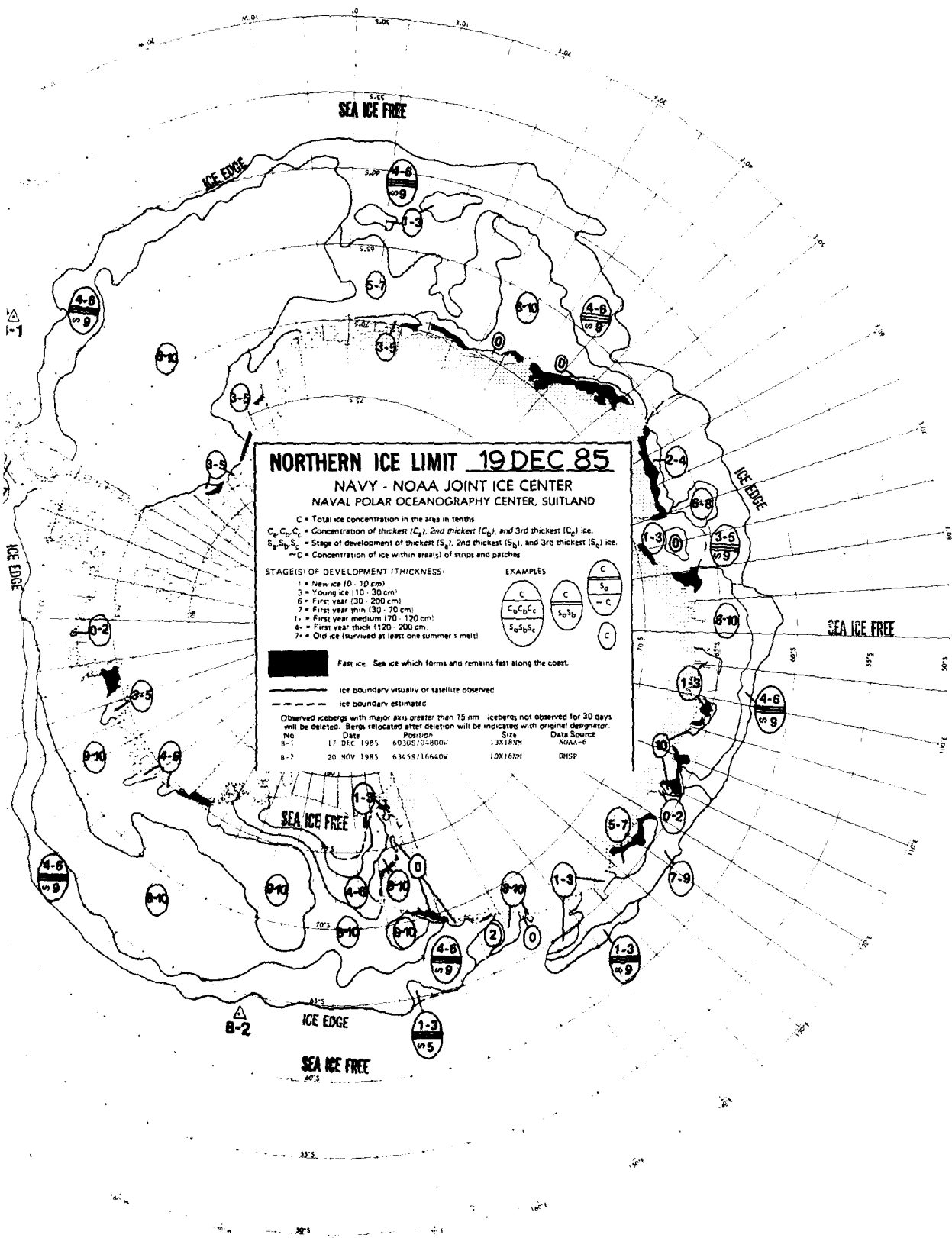


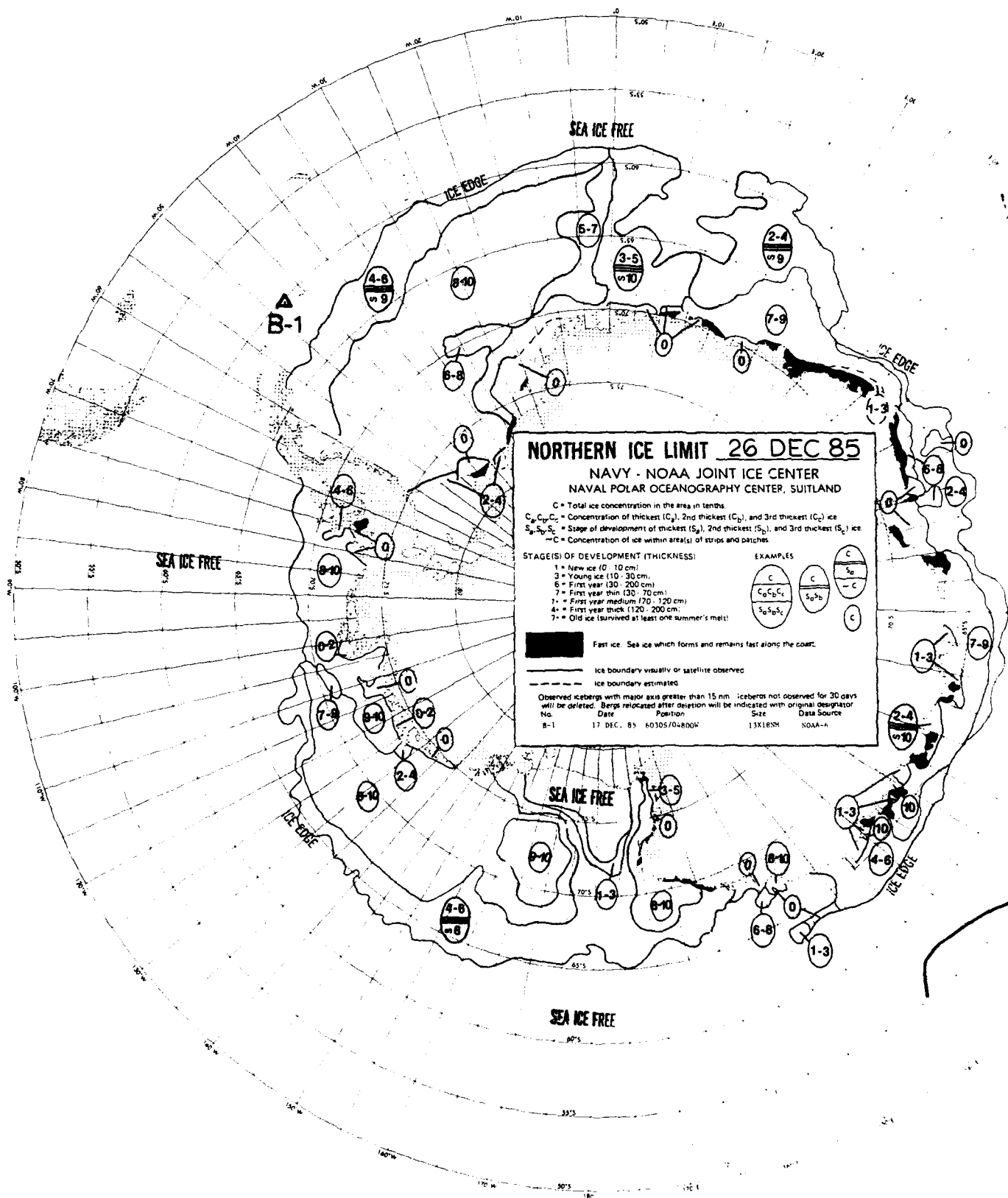












NORTHERN ICE LIMIT 26 DEC 85

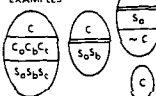
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
C₁C₂C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁S₂S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
~C = Concentration of ice within areals of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (10 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year thin (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES

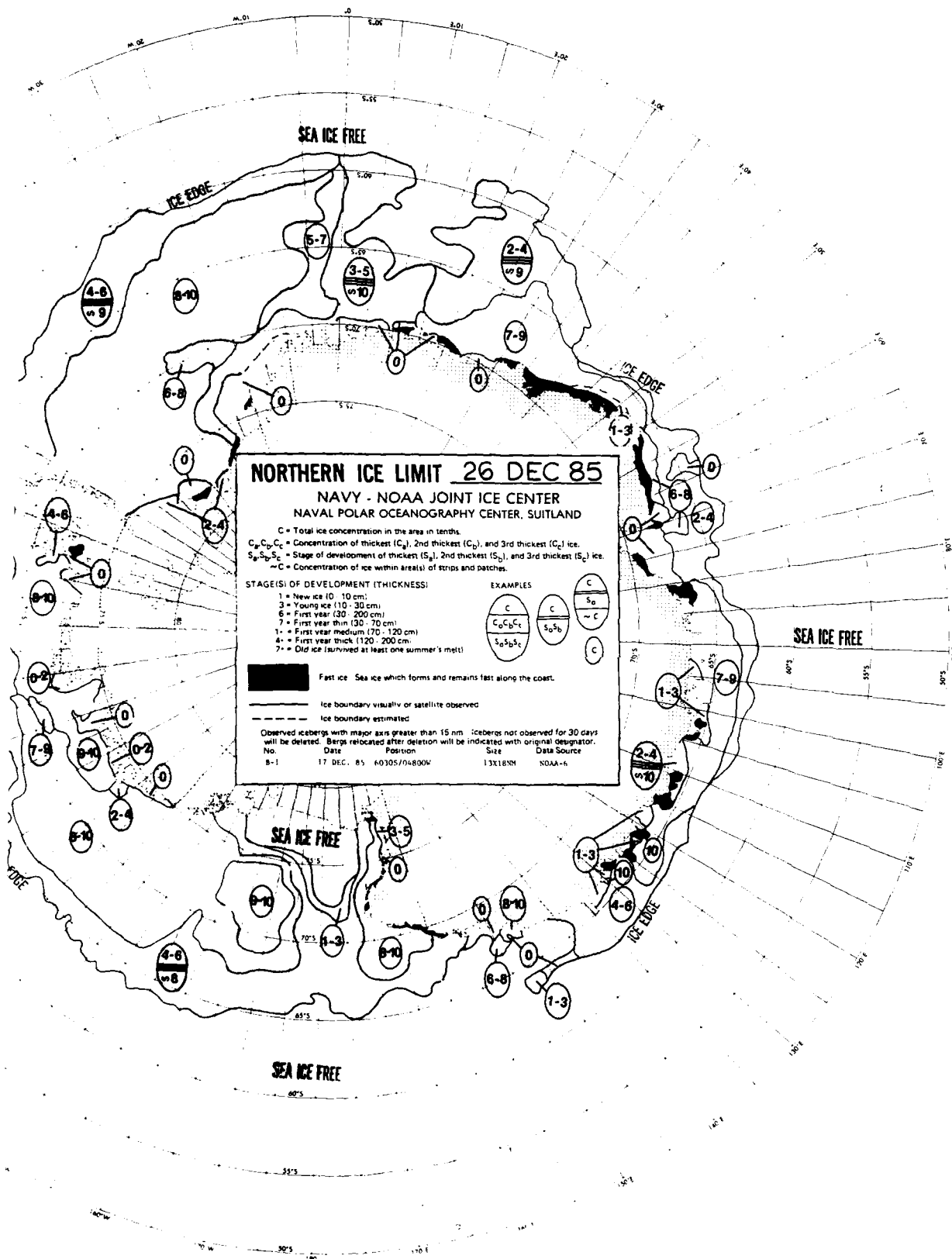


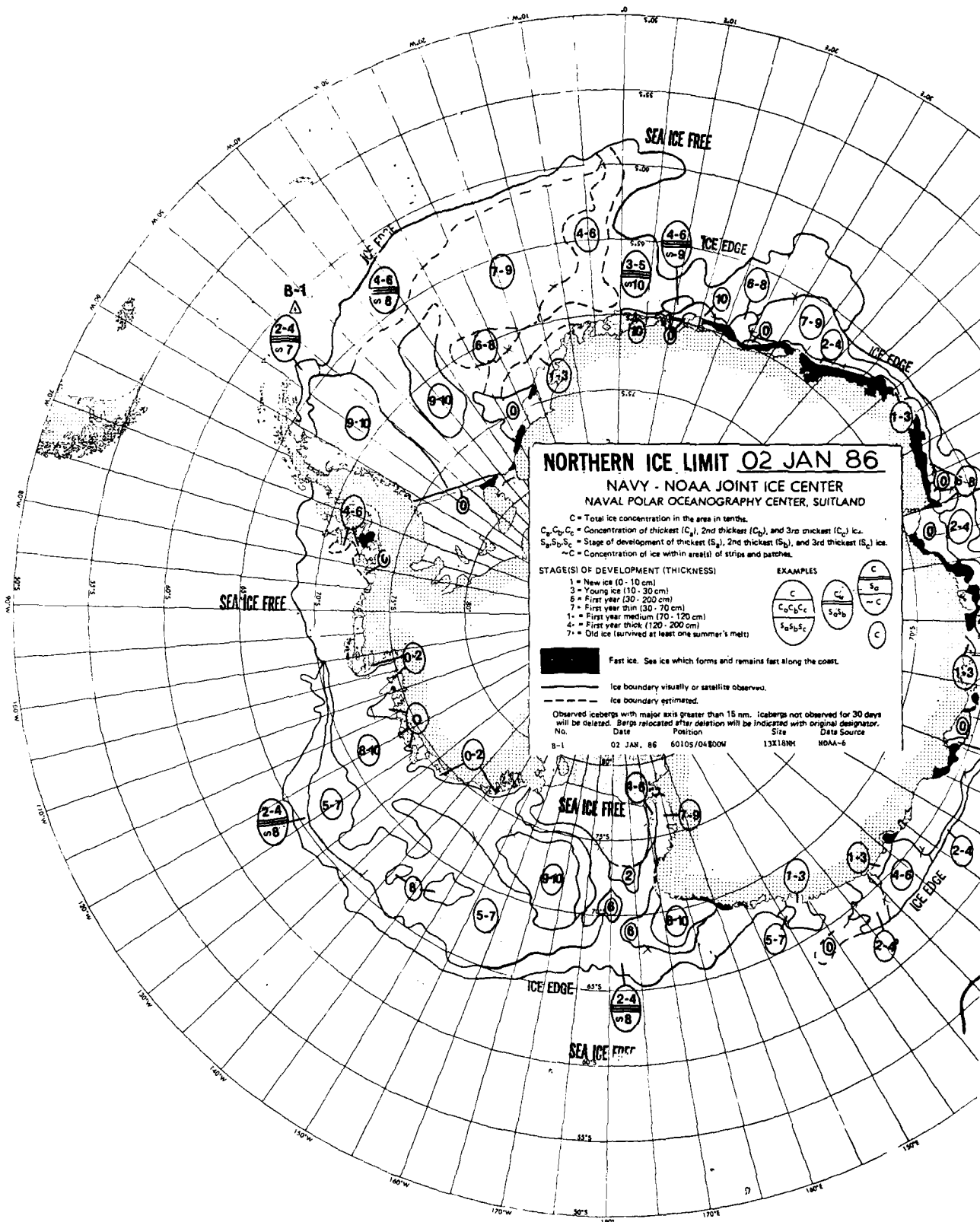
Fast ice Sea ice which forms and remains fast along the coast.

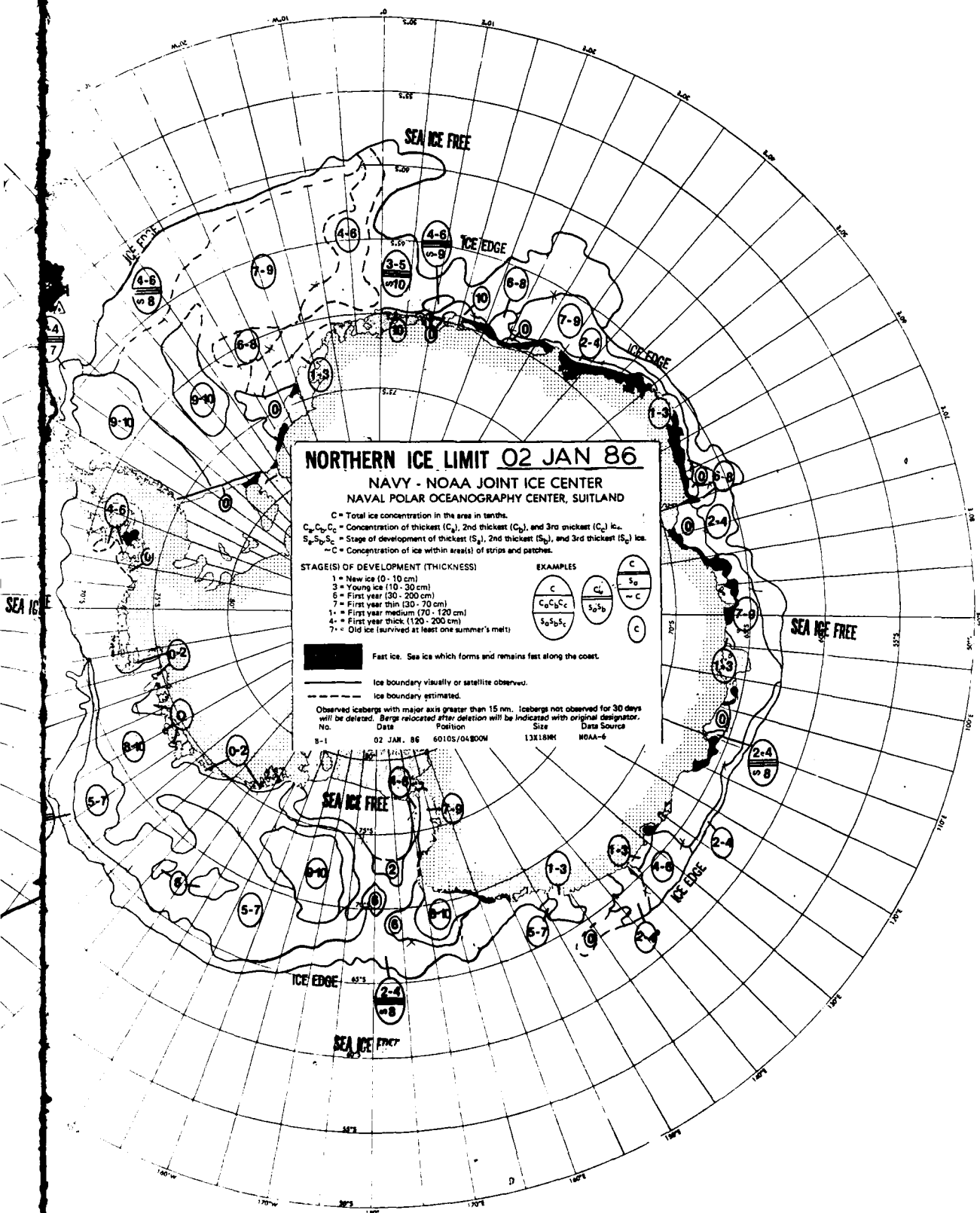
Ice boundary visually or satellite observed

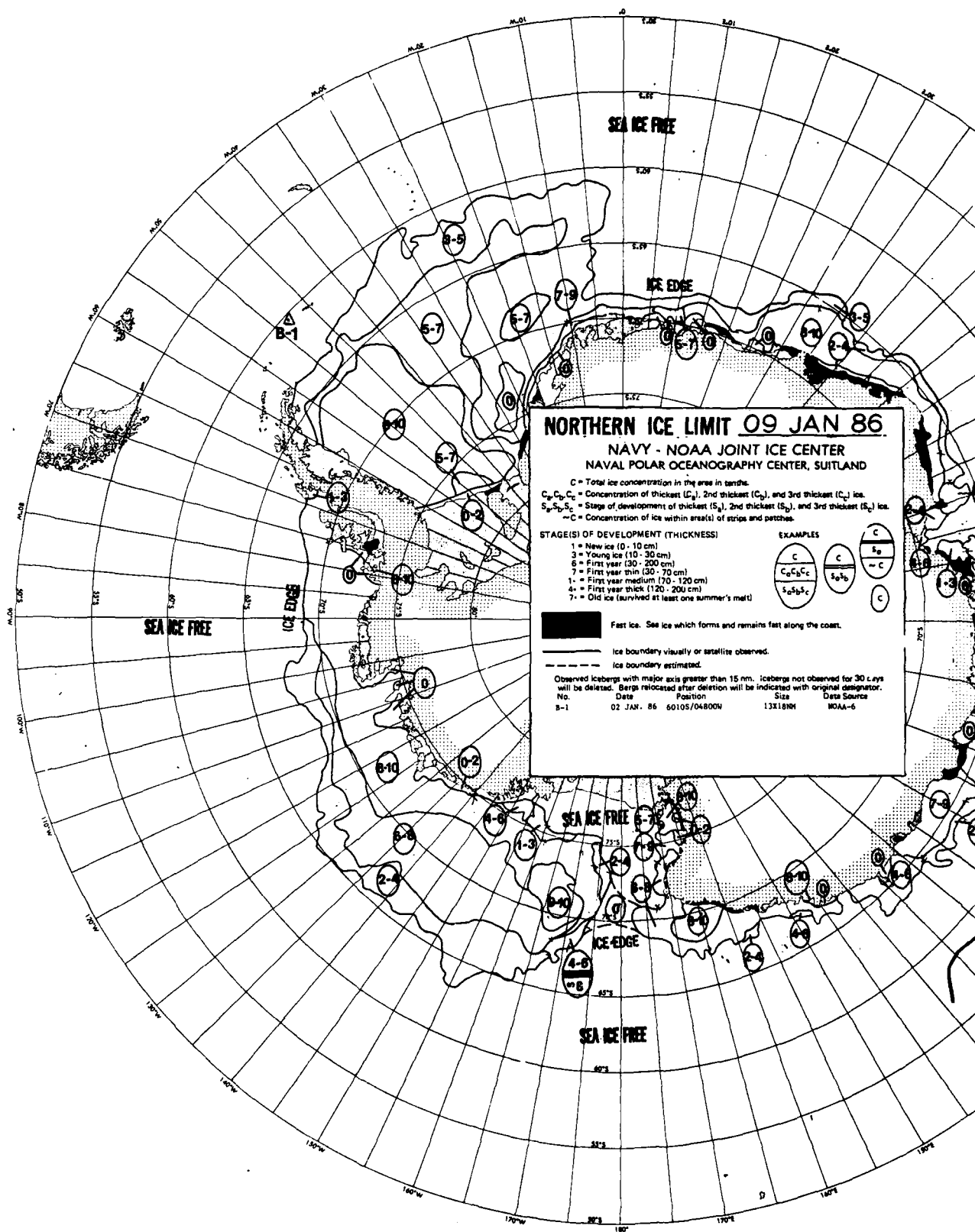
Ice boundary estimated

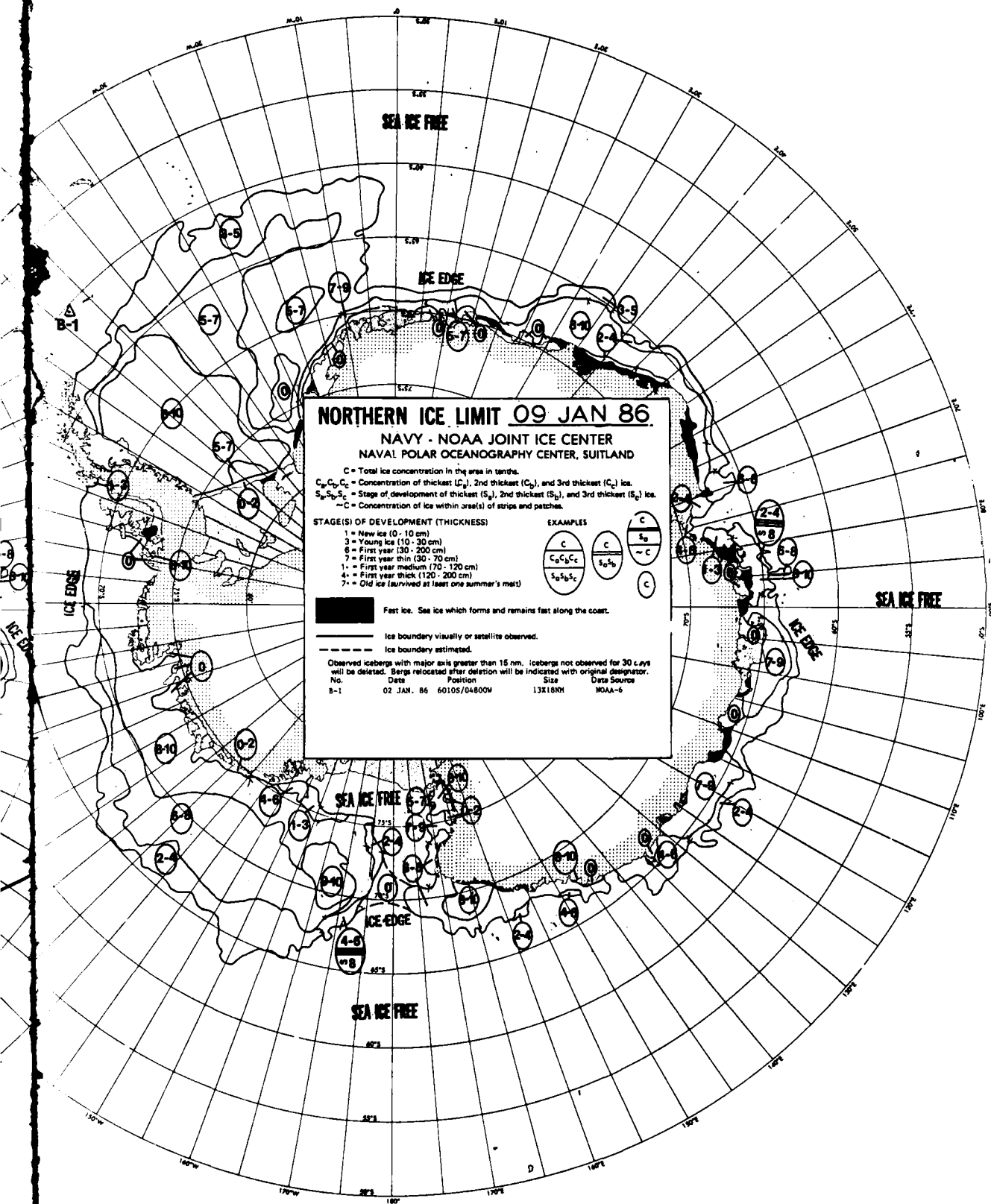
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.
No. Date Position Size Data Source
B-1 17 DEC. 85 60305/04800W 13X18NM NOAA-6

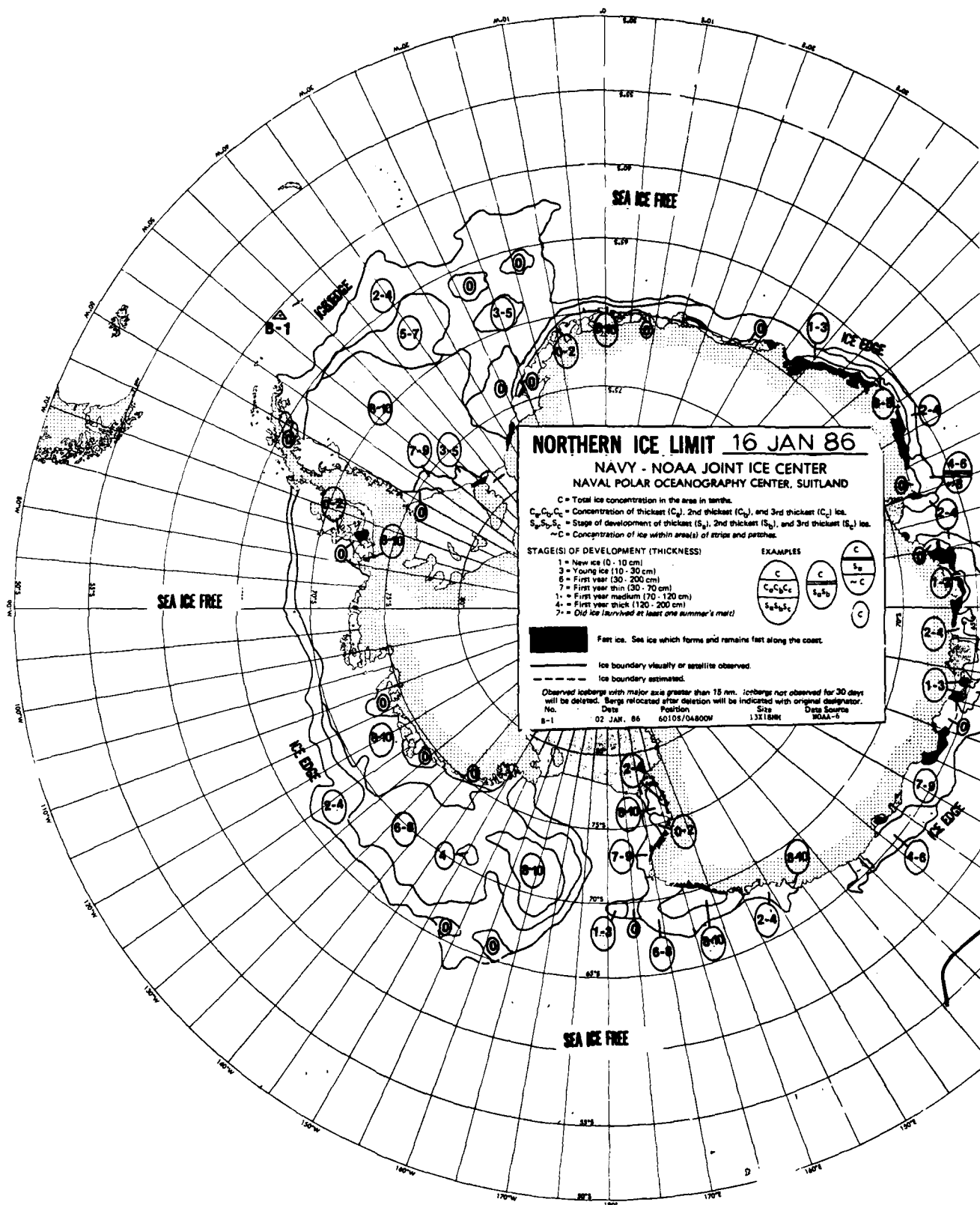


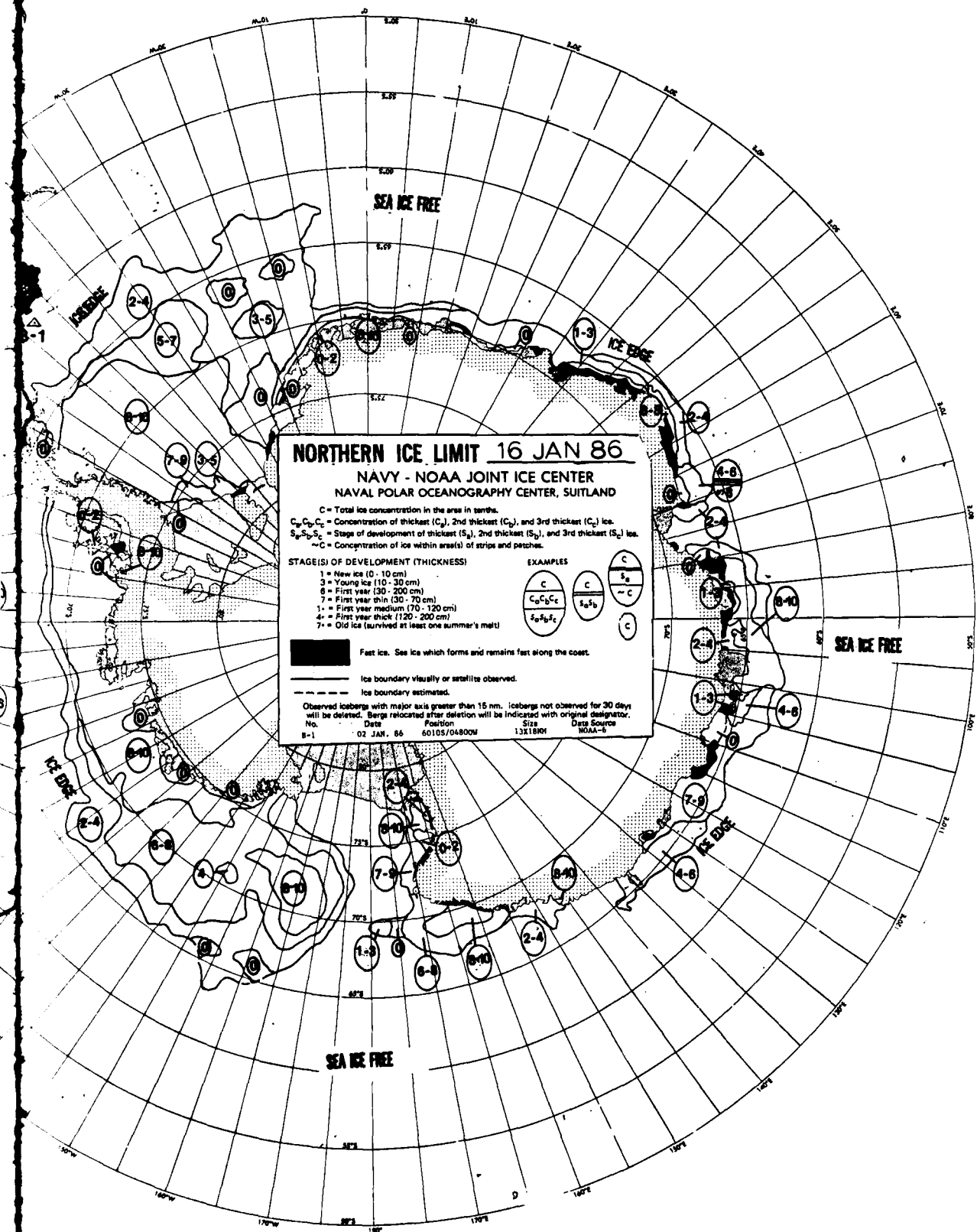


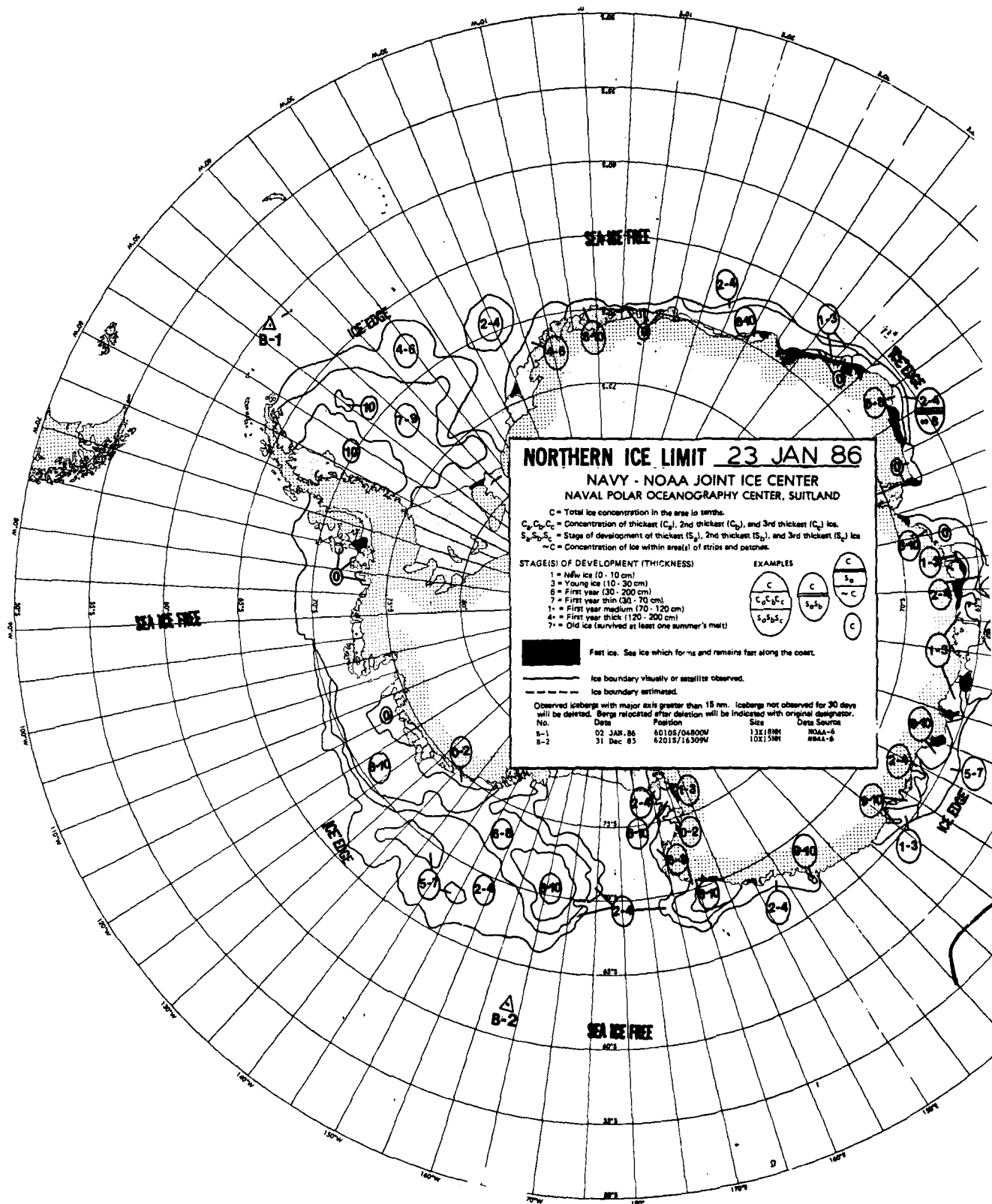


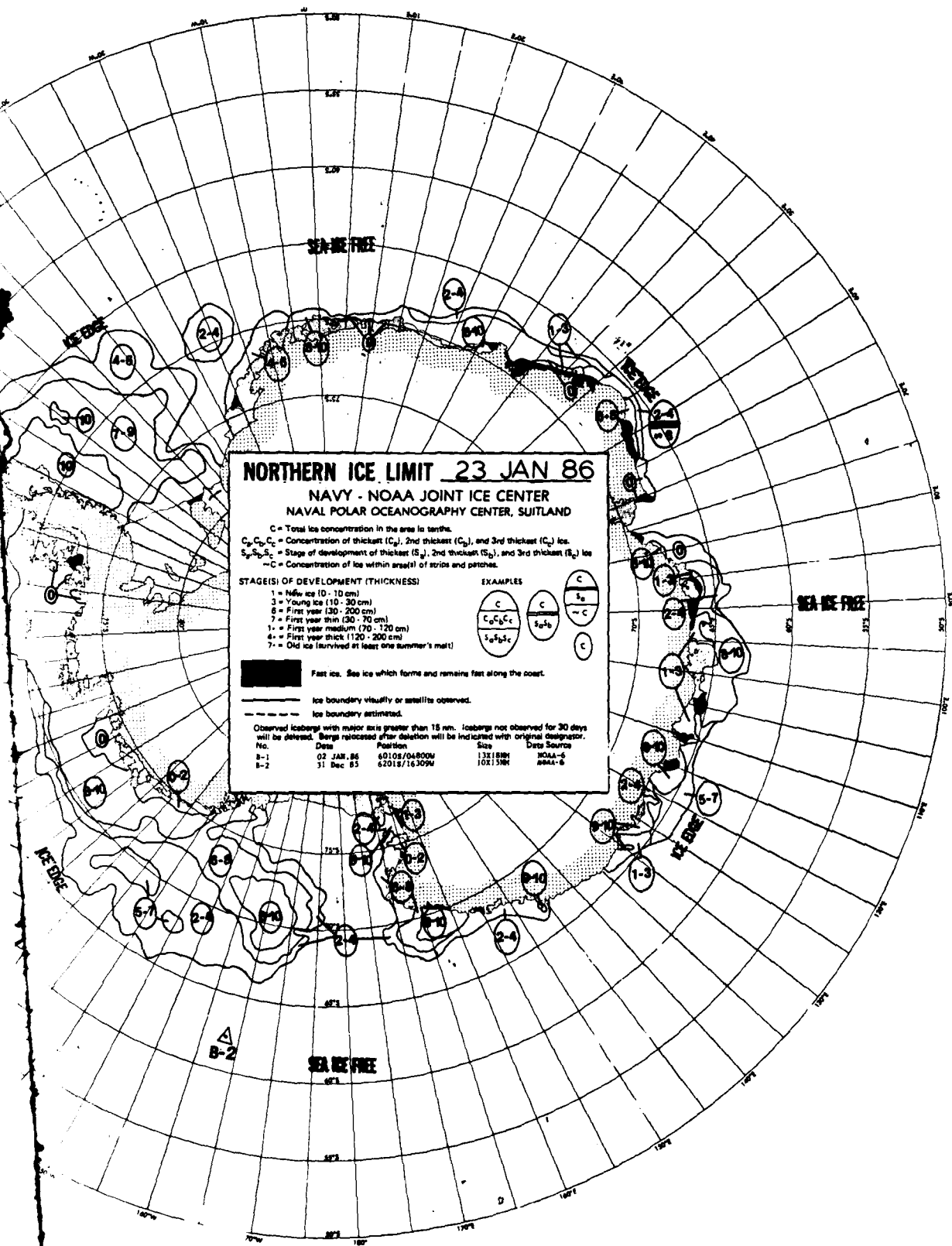


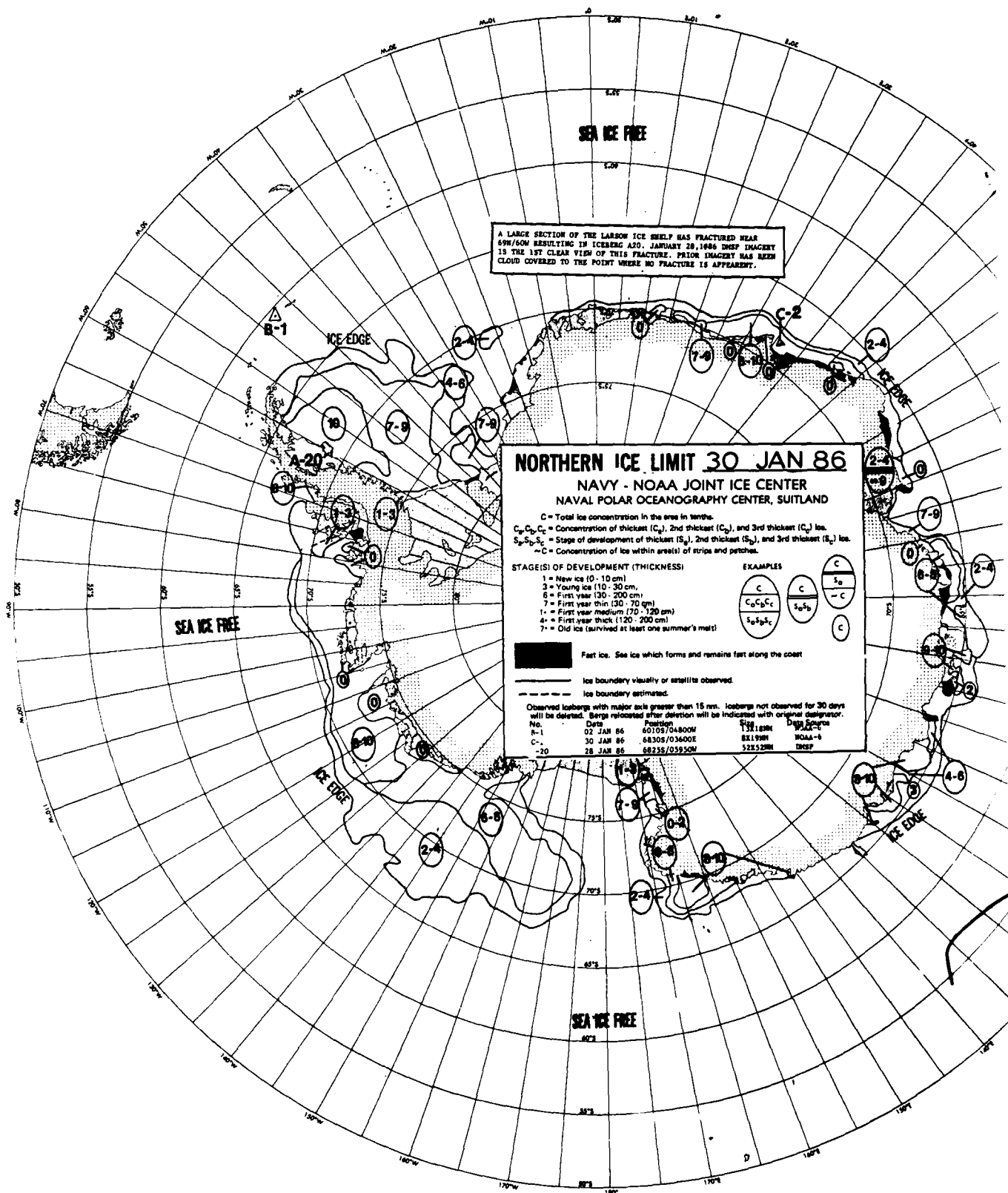












A LARGE SECTION OF THE LARSEN ICE SHELF HAS FRACTURED NEAR 69N/60W RESULTING IN ICEBERG A20. JANUARY 28, 1986 DMSF IMAGERY IS THE 1ST CLEAR VIEW OF THIS FRACTURE. PRIOR IMAGERY HAS BEEN CLOUD COVERED TO THE POINT WHERE NO FRACTURE IS APPARENT.

NORTHERN ICE LIMIT 30 JAN 86

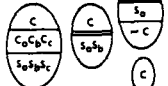
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

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C₁C₂C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁S₂S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
-C = Concentration of ice within areals of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 2 = Young ice (10 - 30 cm)
- 3 = First year (30 - 100 cm)
- 4 = First year thin (30 - 70 cm)
- 5 = First year medium (70 - 120 cm)
- 6 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

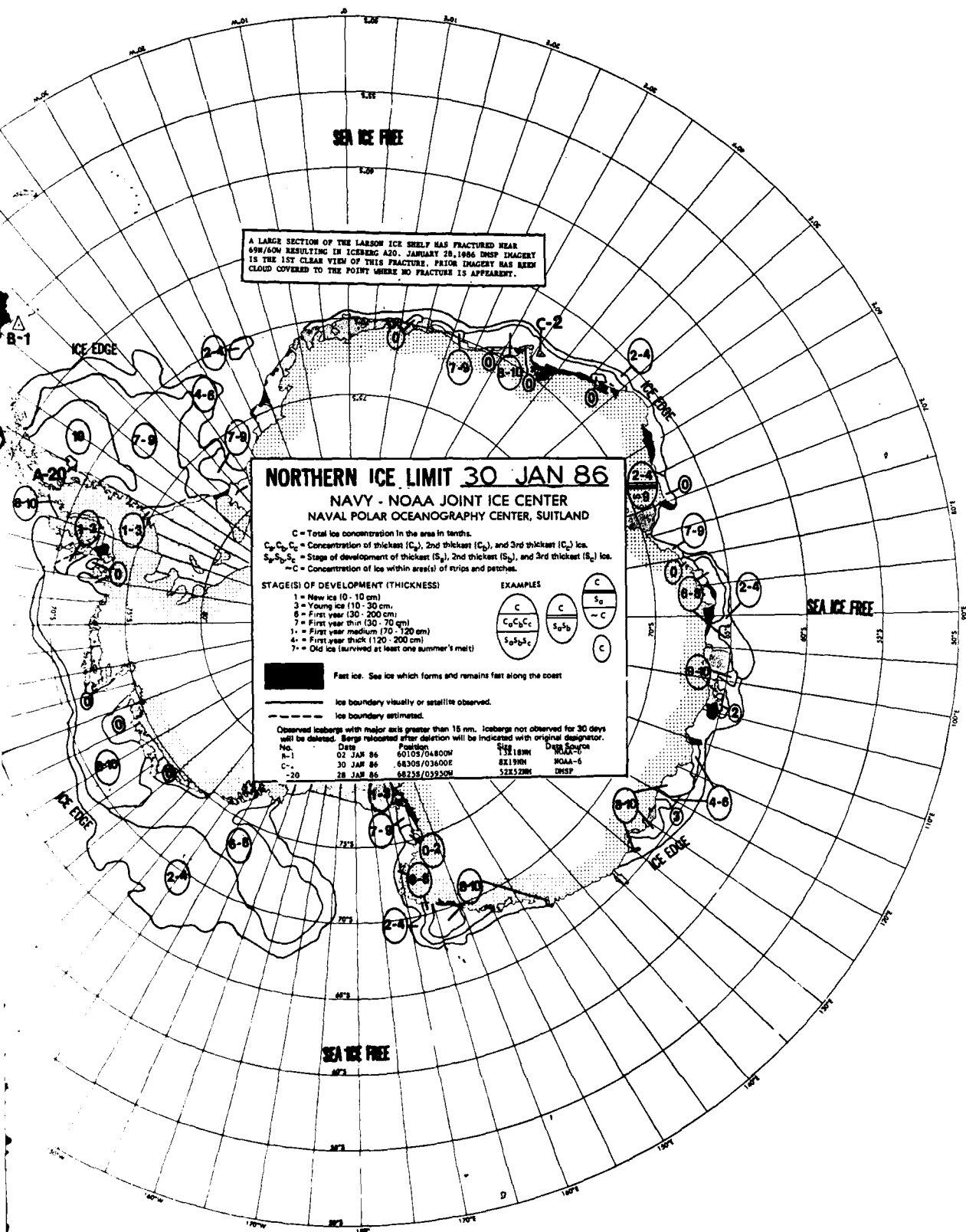
EXAMPLES

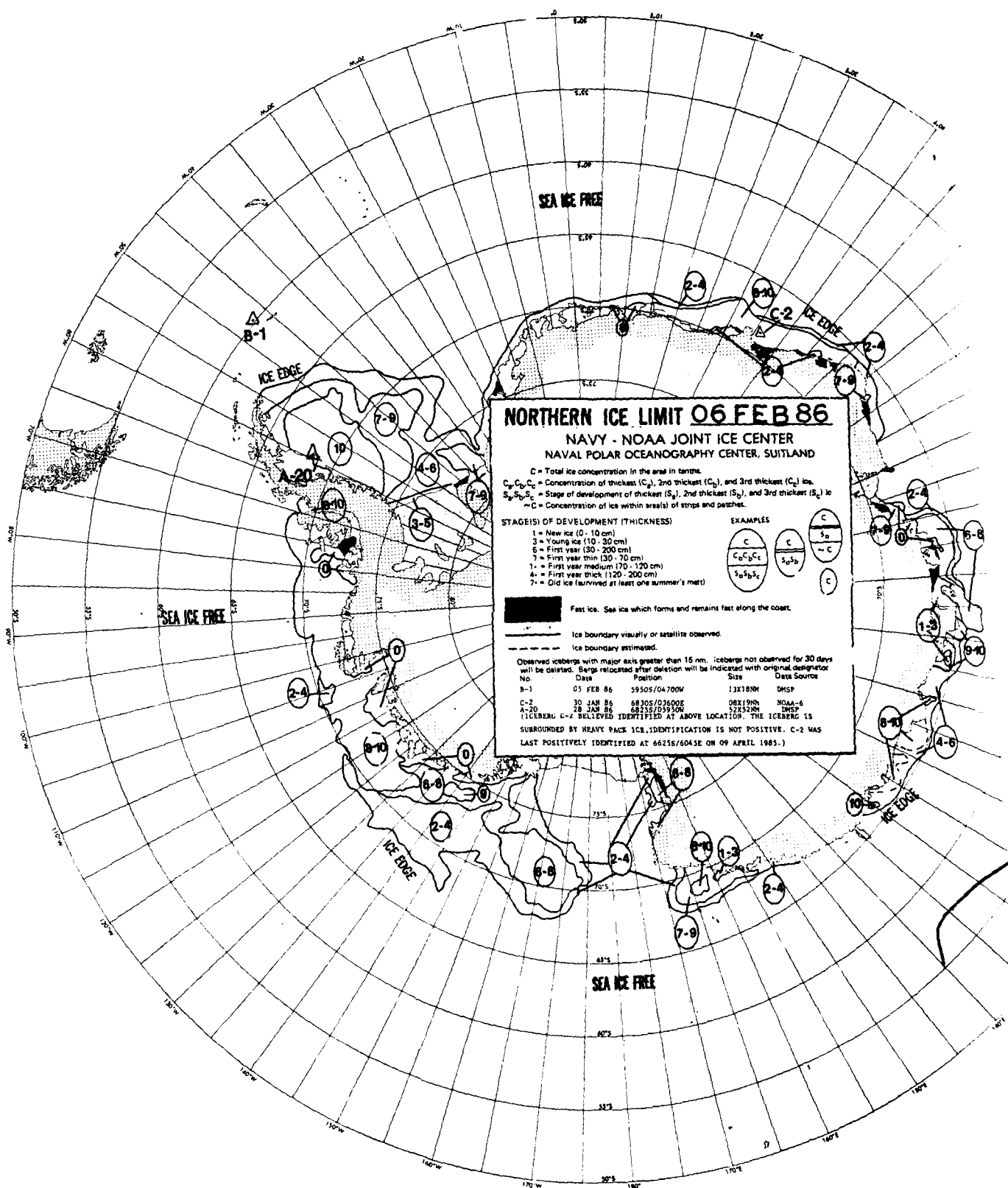


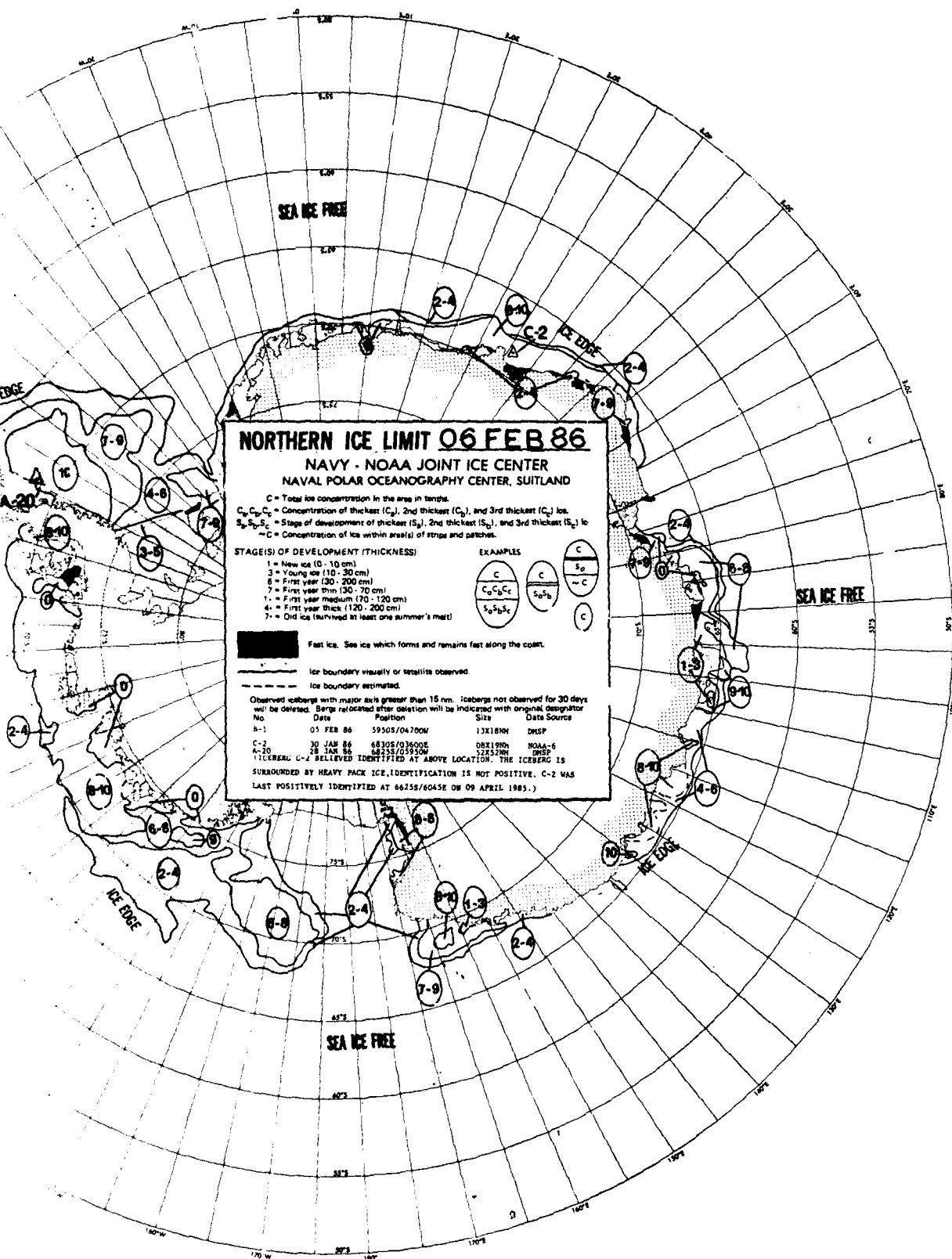
- Fast ice. See ice which forms and remains fast along the coast
- Ice boundary visually or satellite observed.
- Ice boundary estimated.

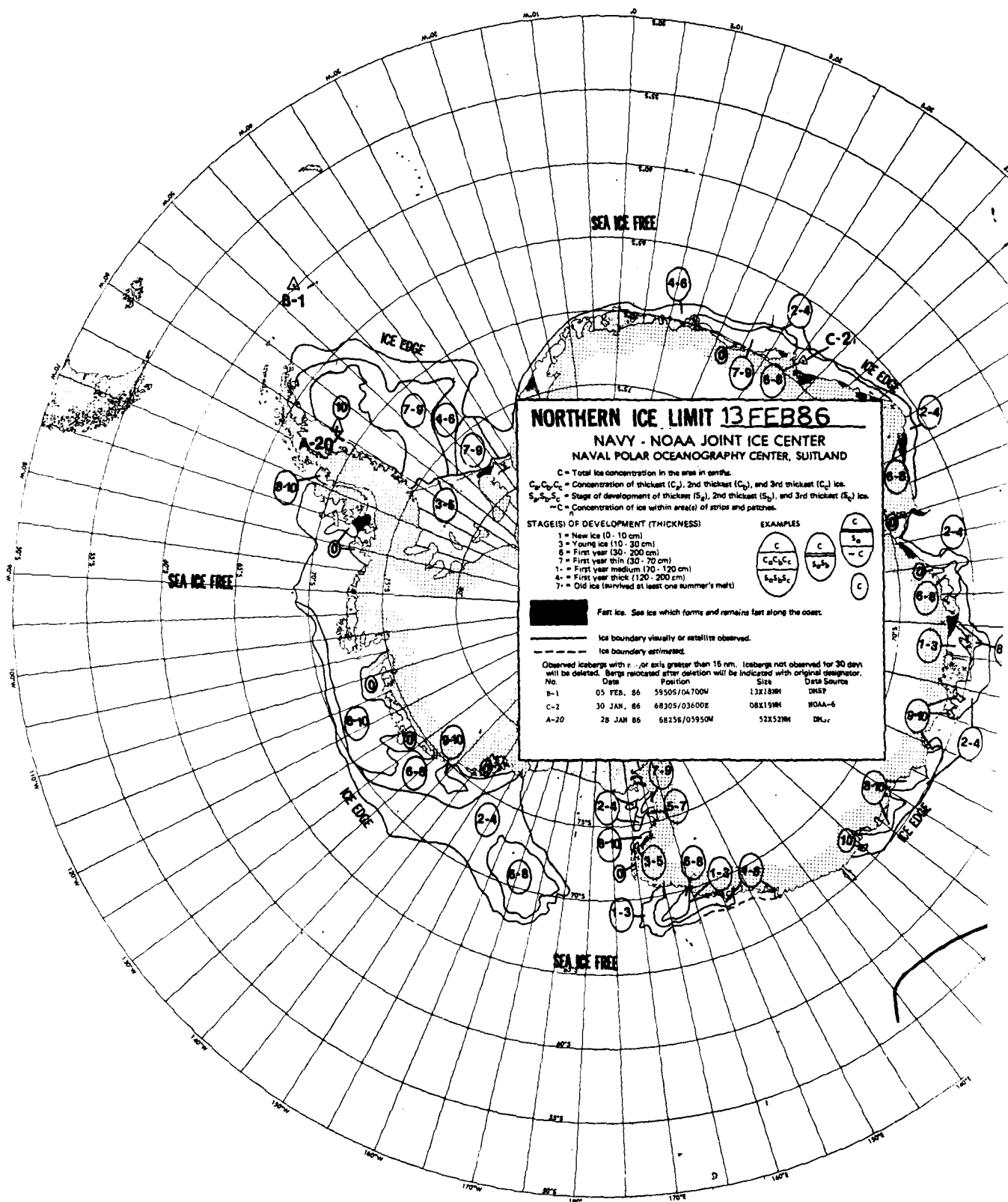
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

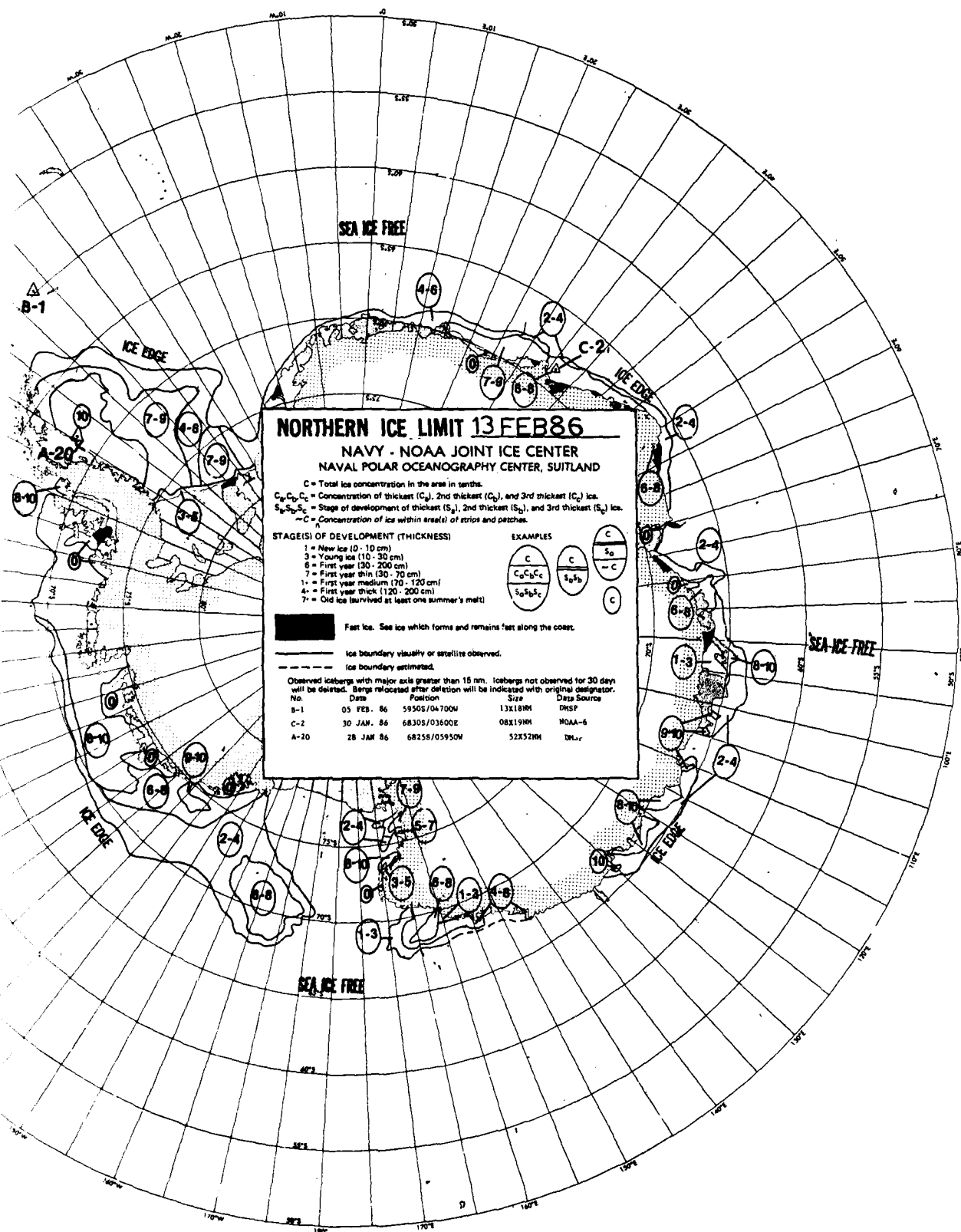
No.	Date	Position	Size	Data Source
B-1	02 JAN 86	60105/04800N	1111nm	NOAA-9
C-2	30 JAN 86	68305/03600E	811nm	NOAA-9
-20	28 JAN 86	68235/05950N	52X52nm	DMSF

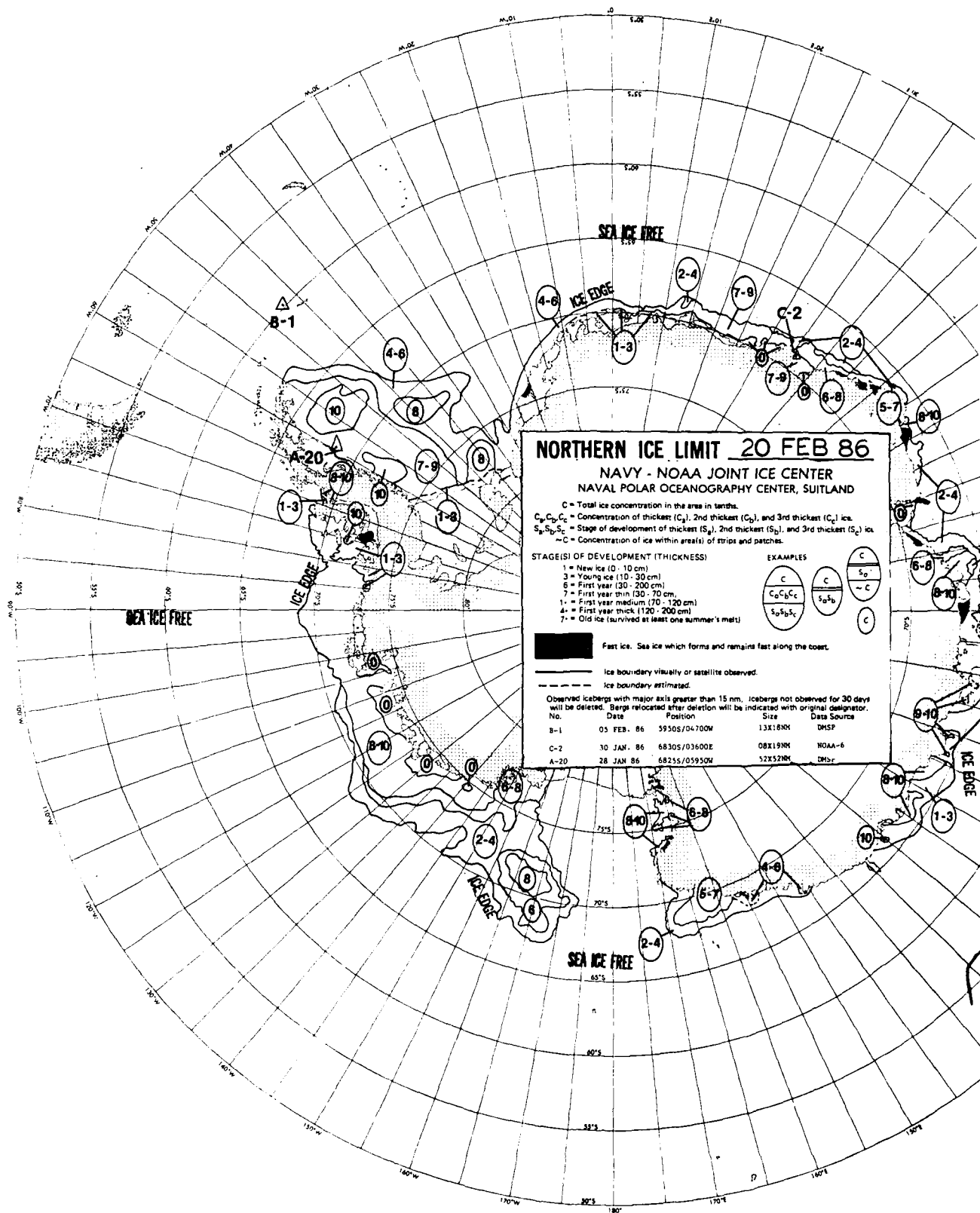


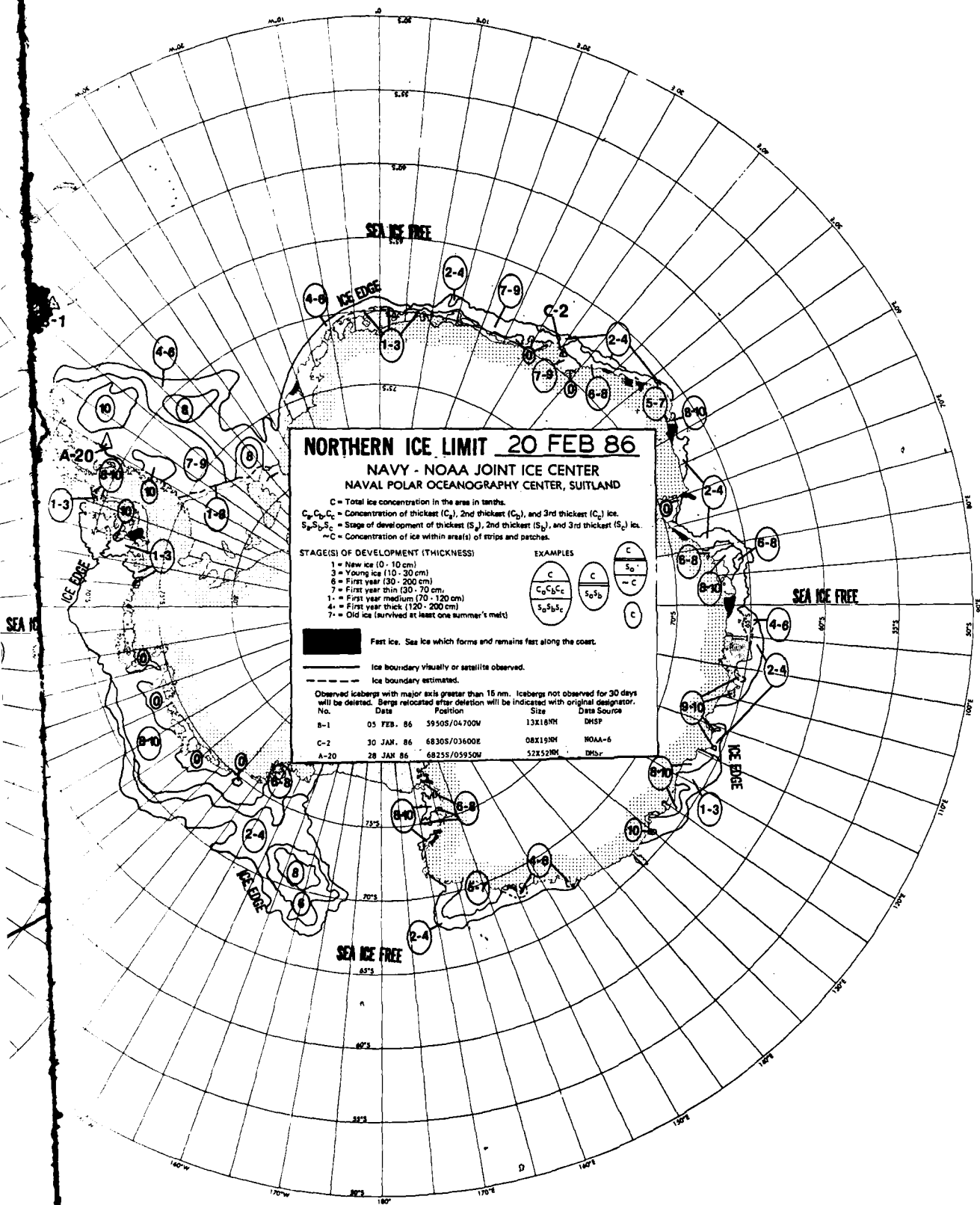


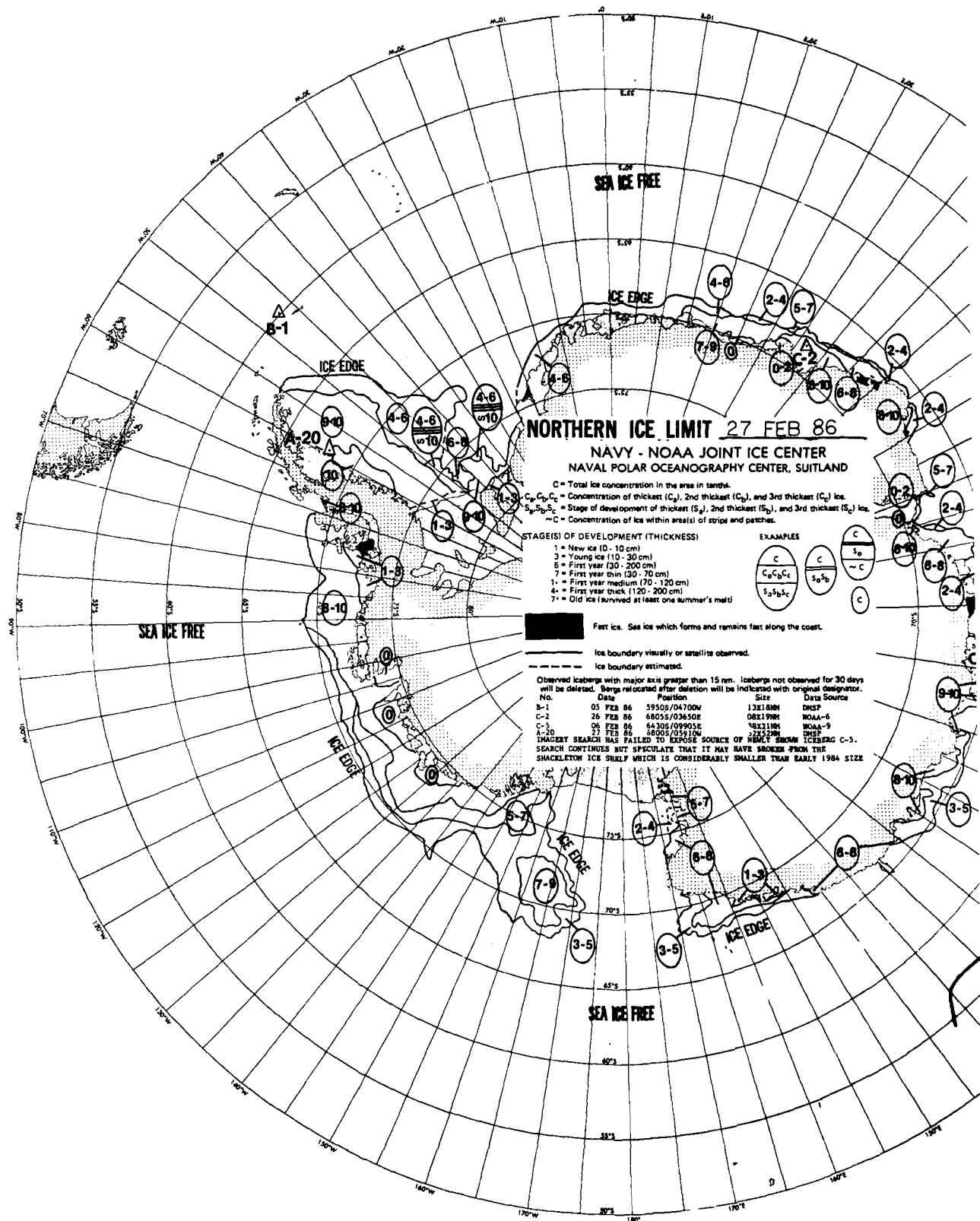


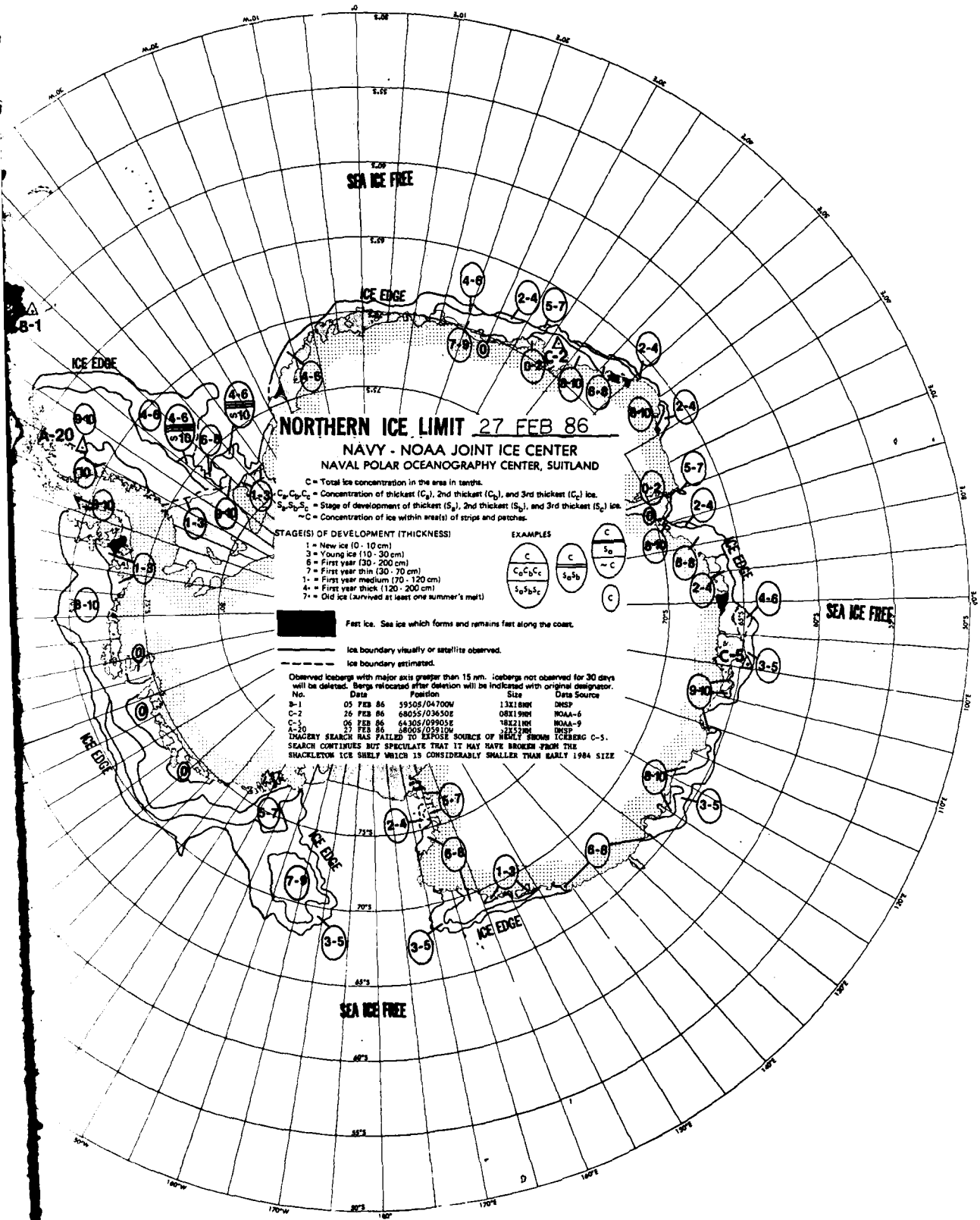


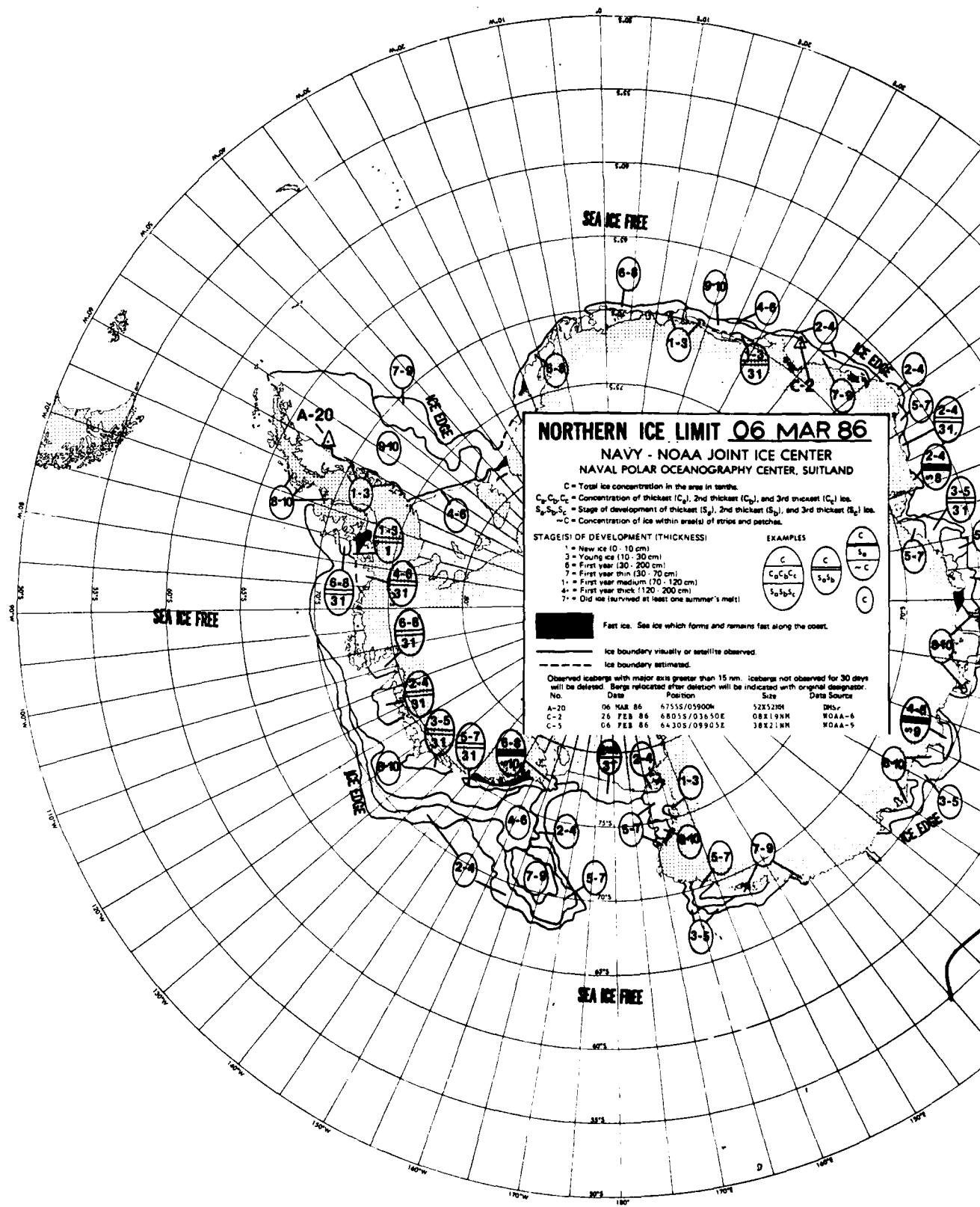


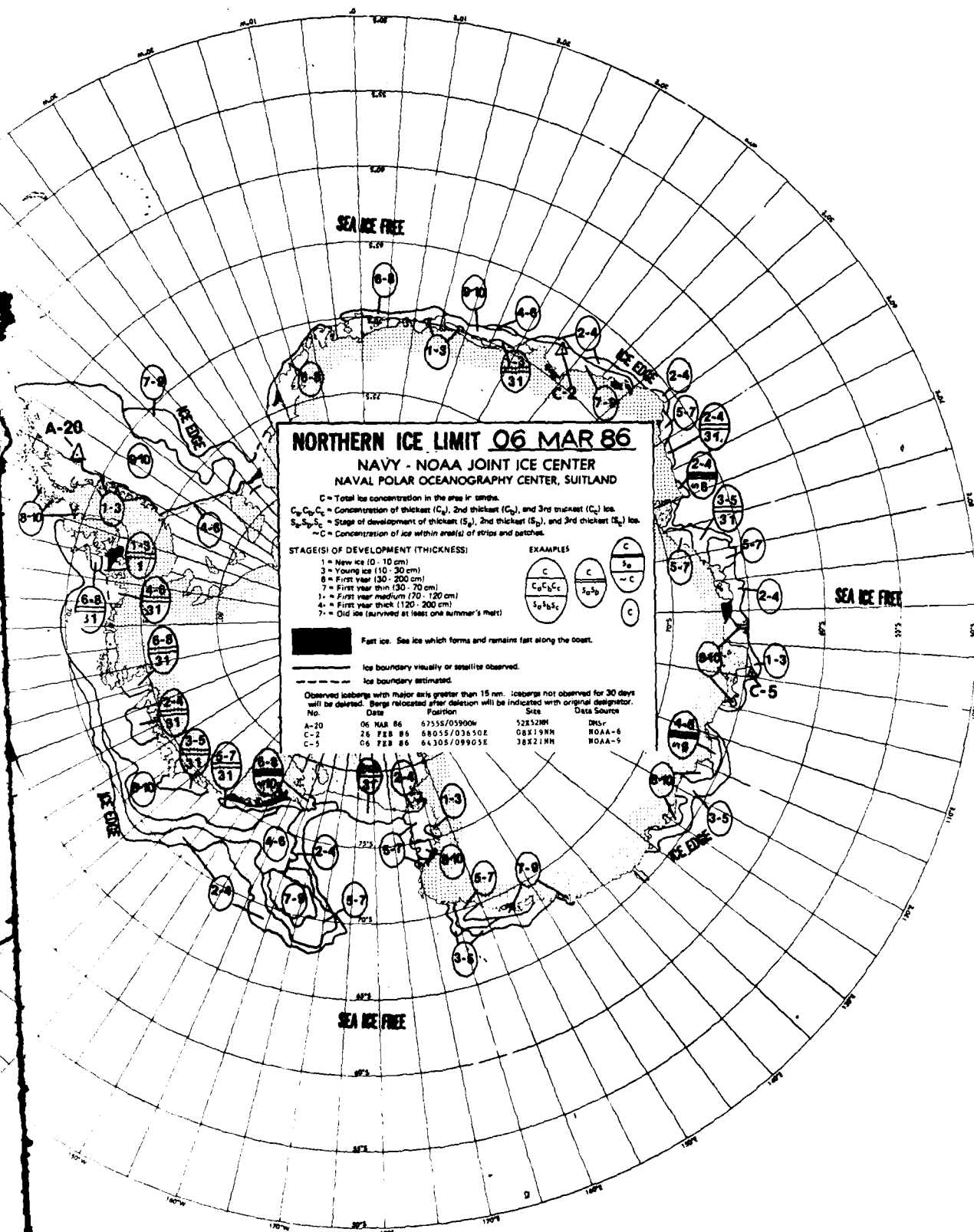


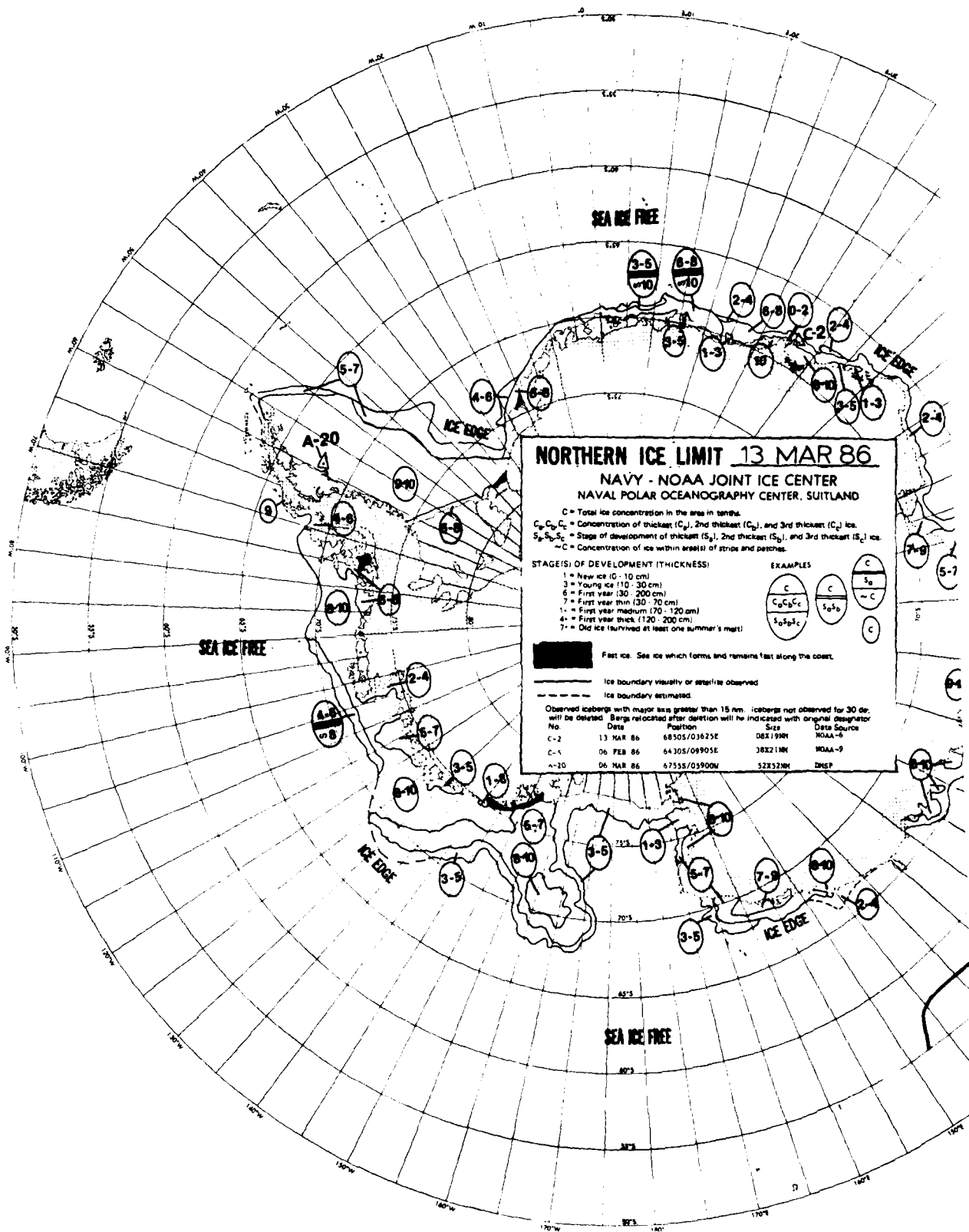


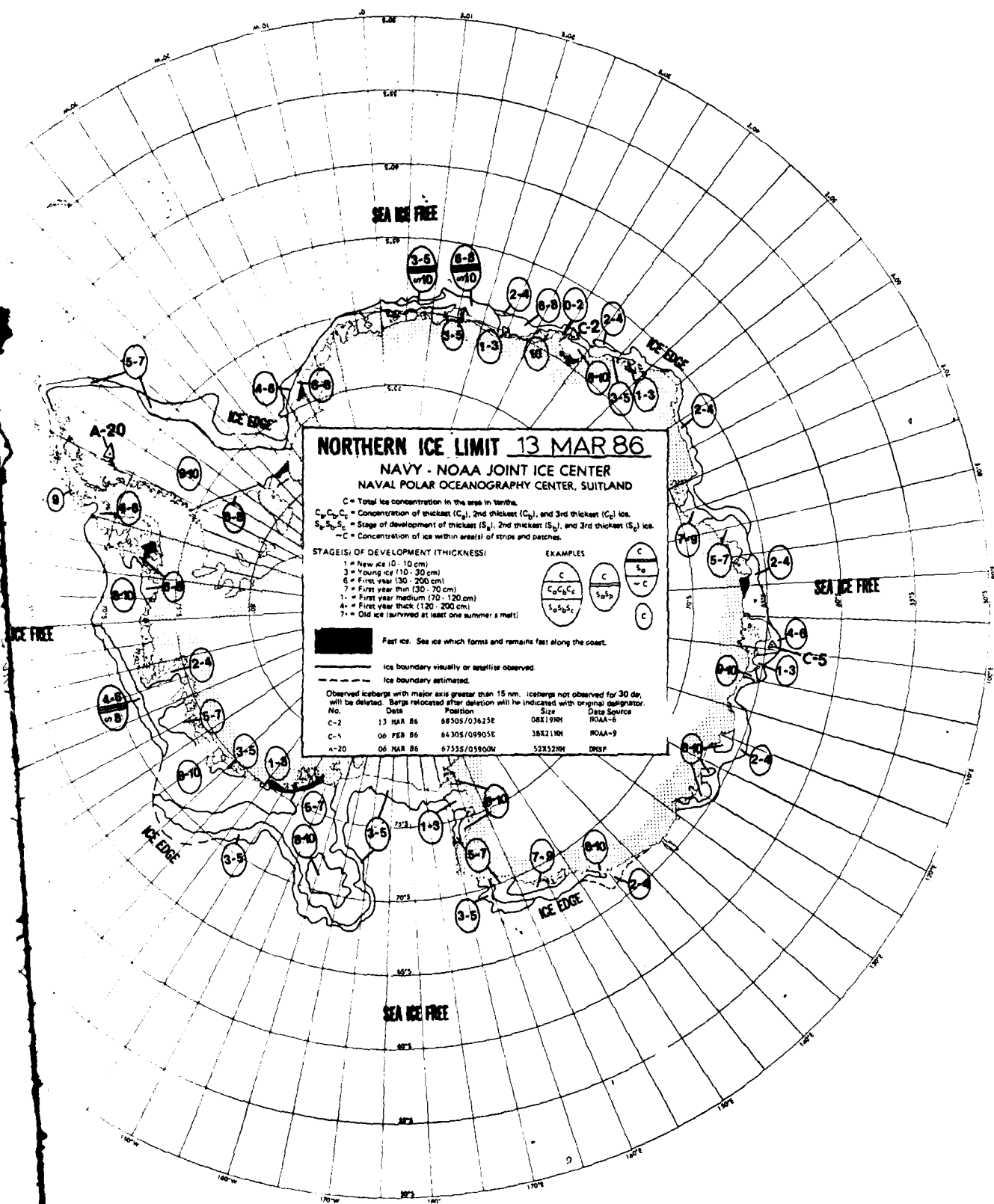


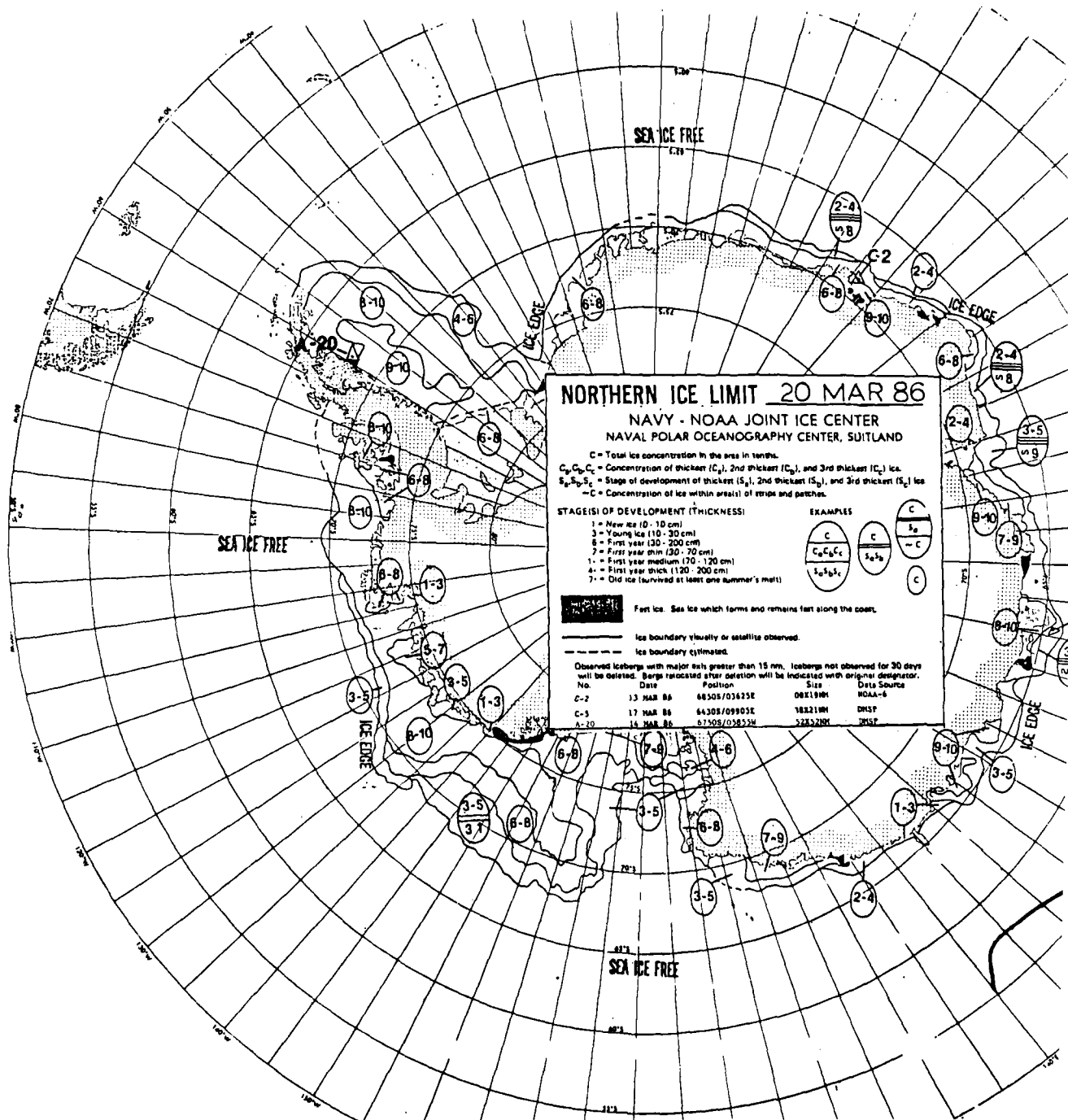


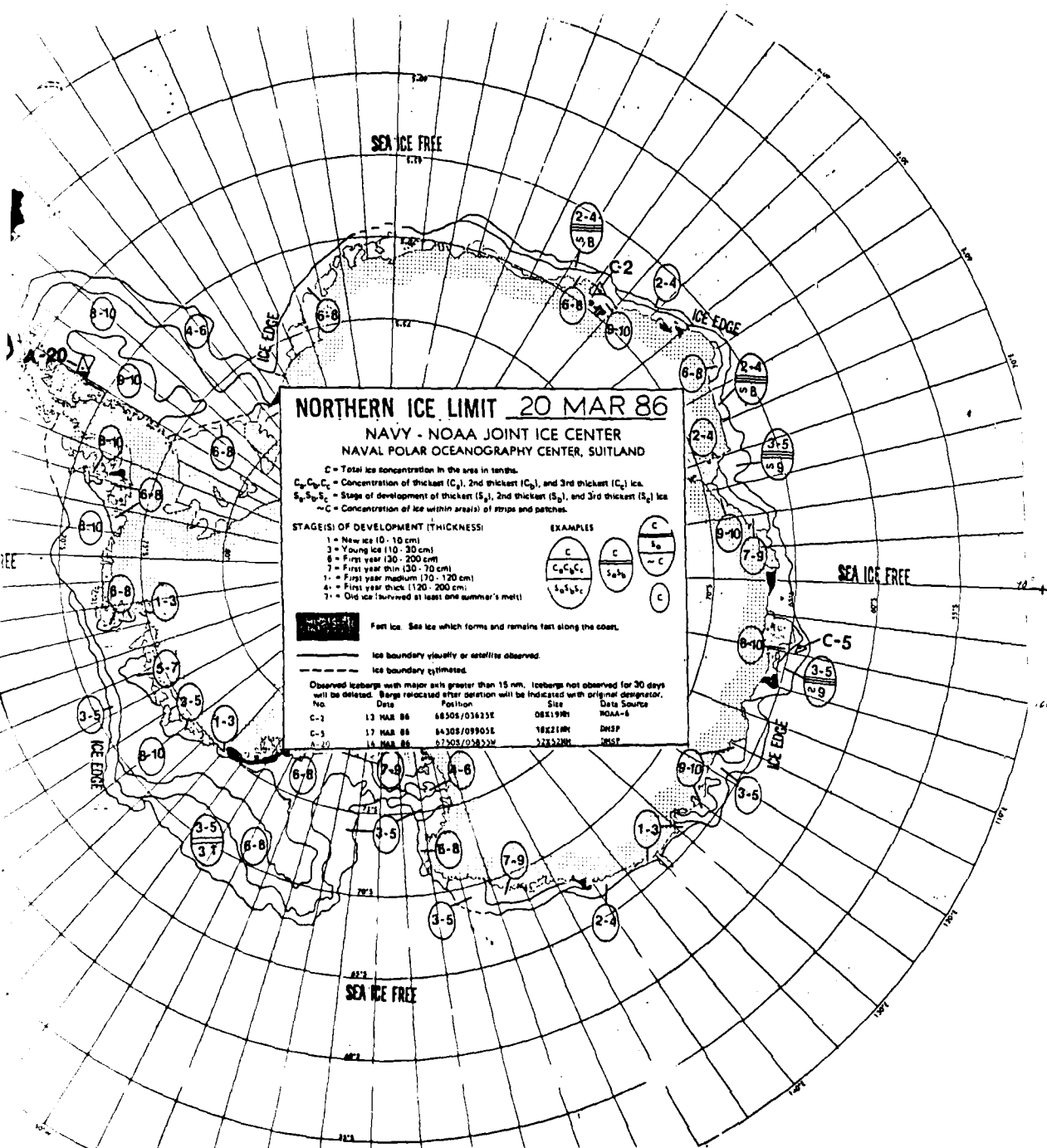


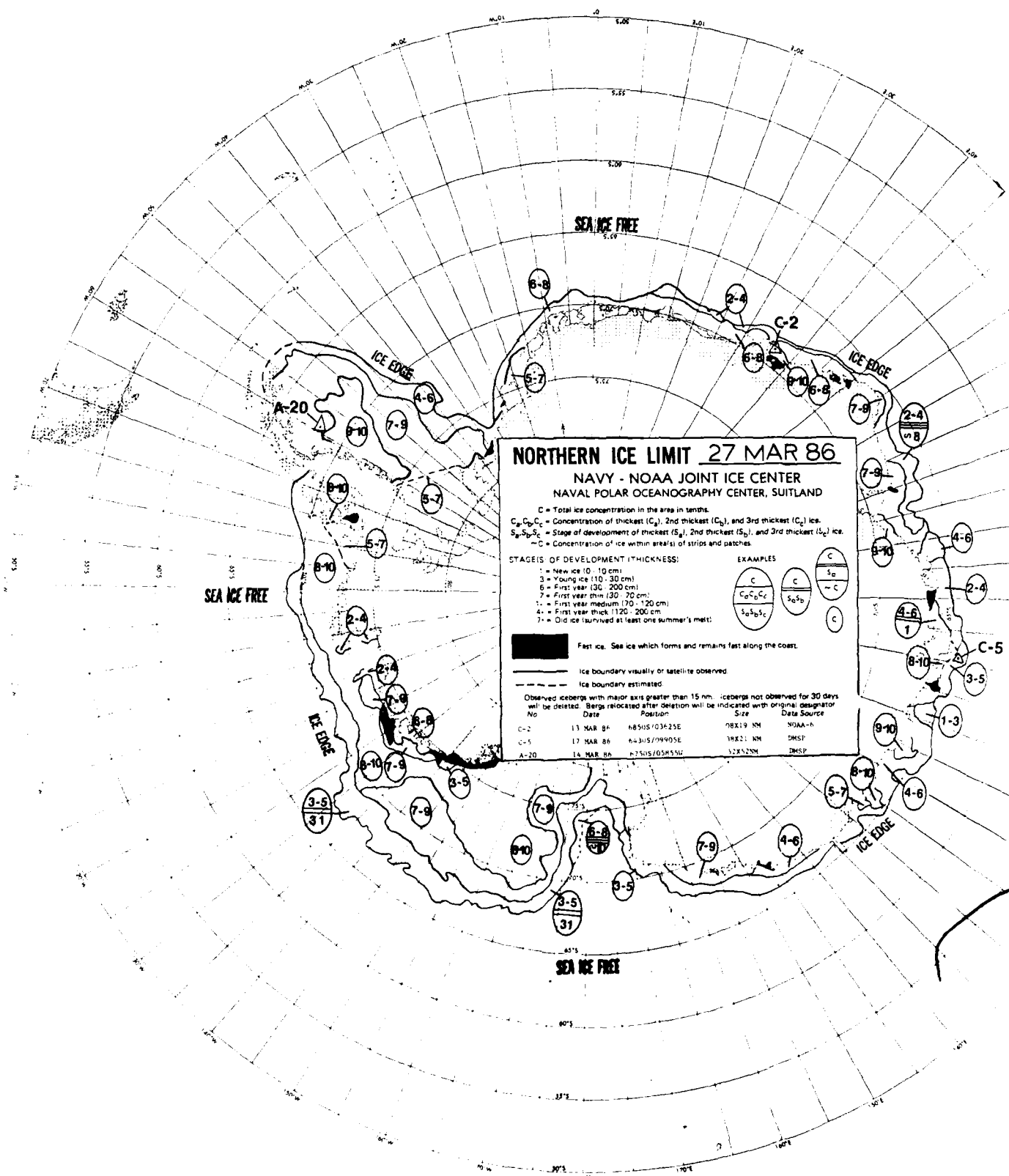


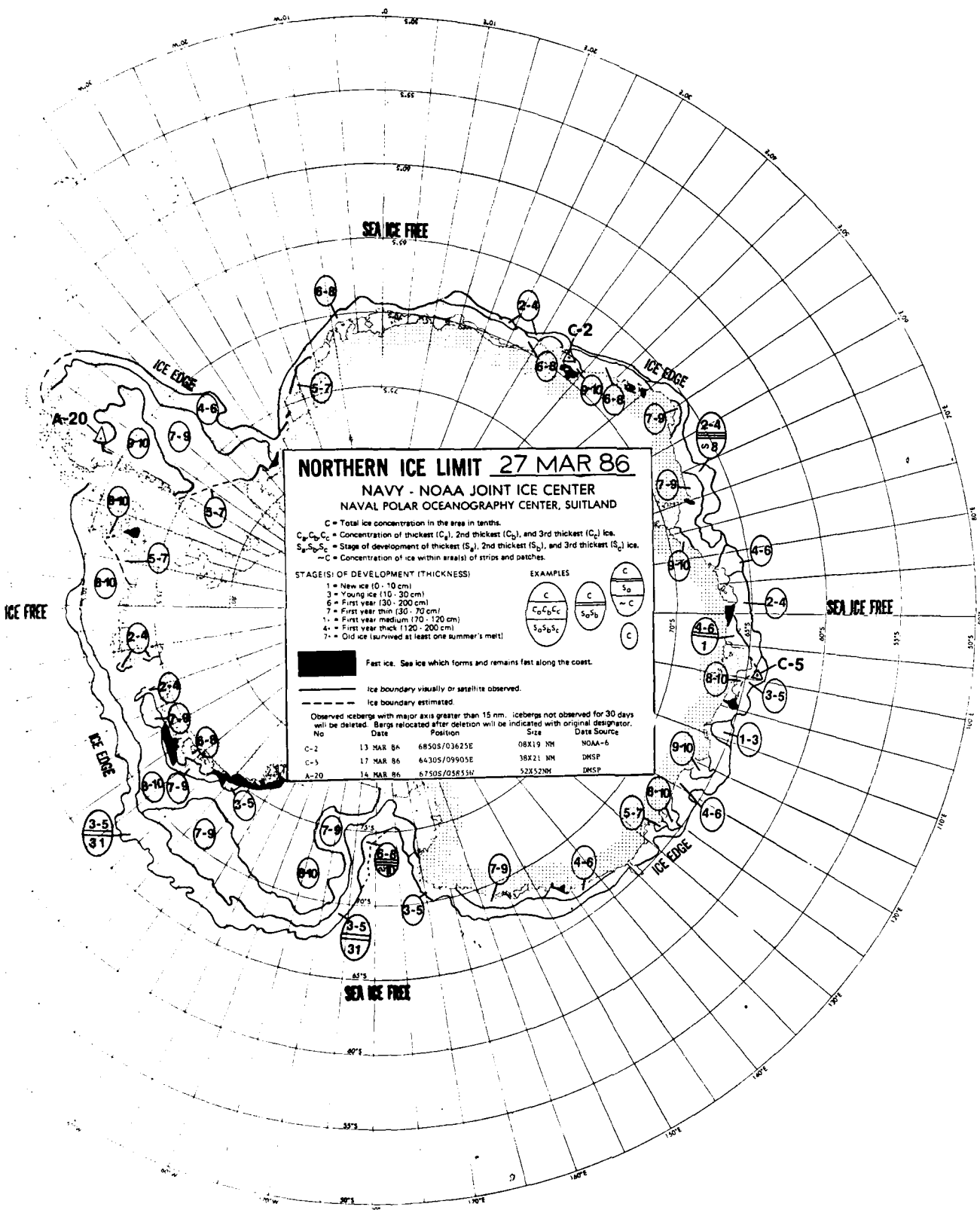


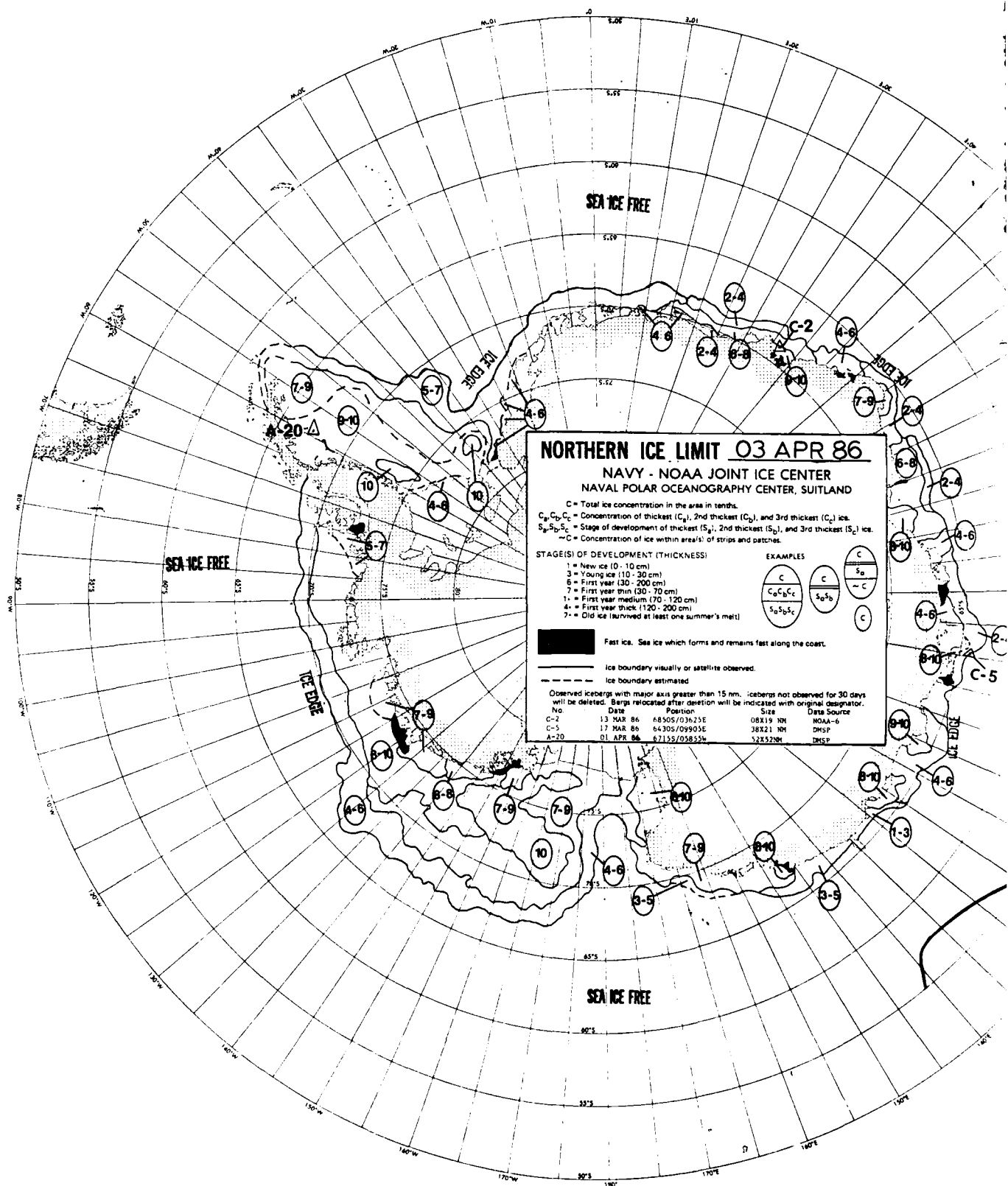


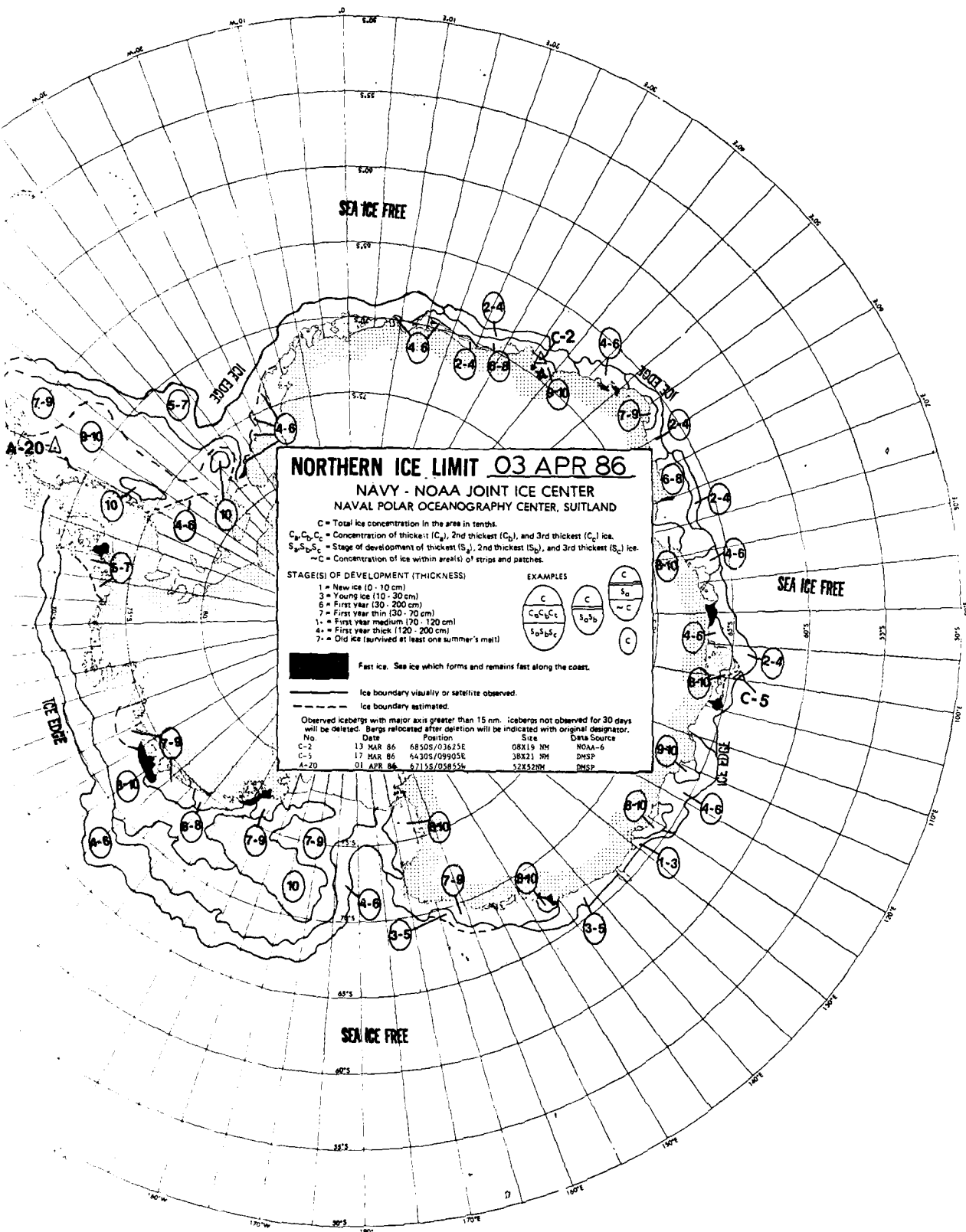


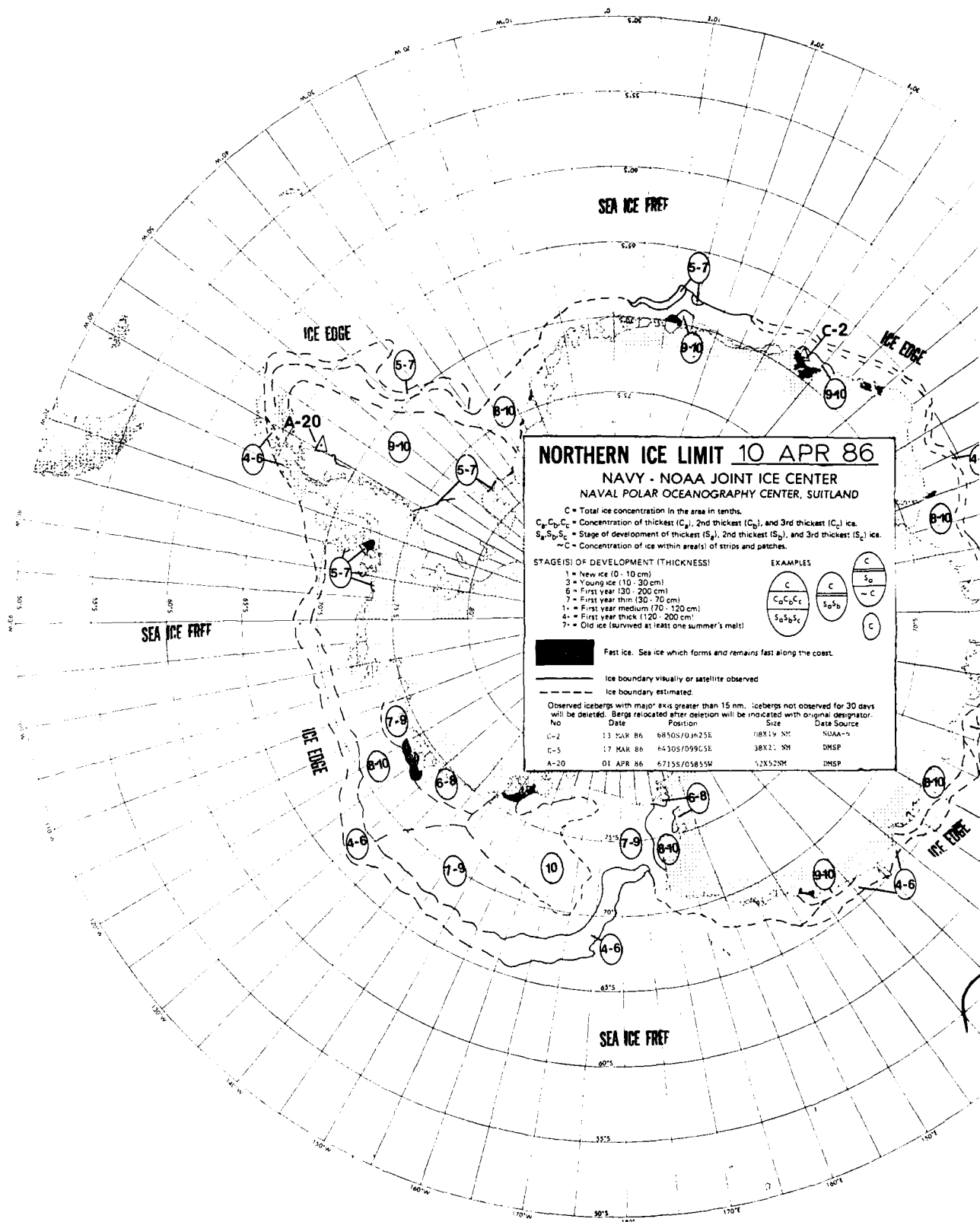


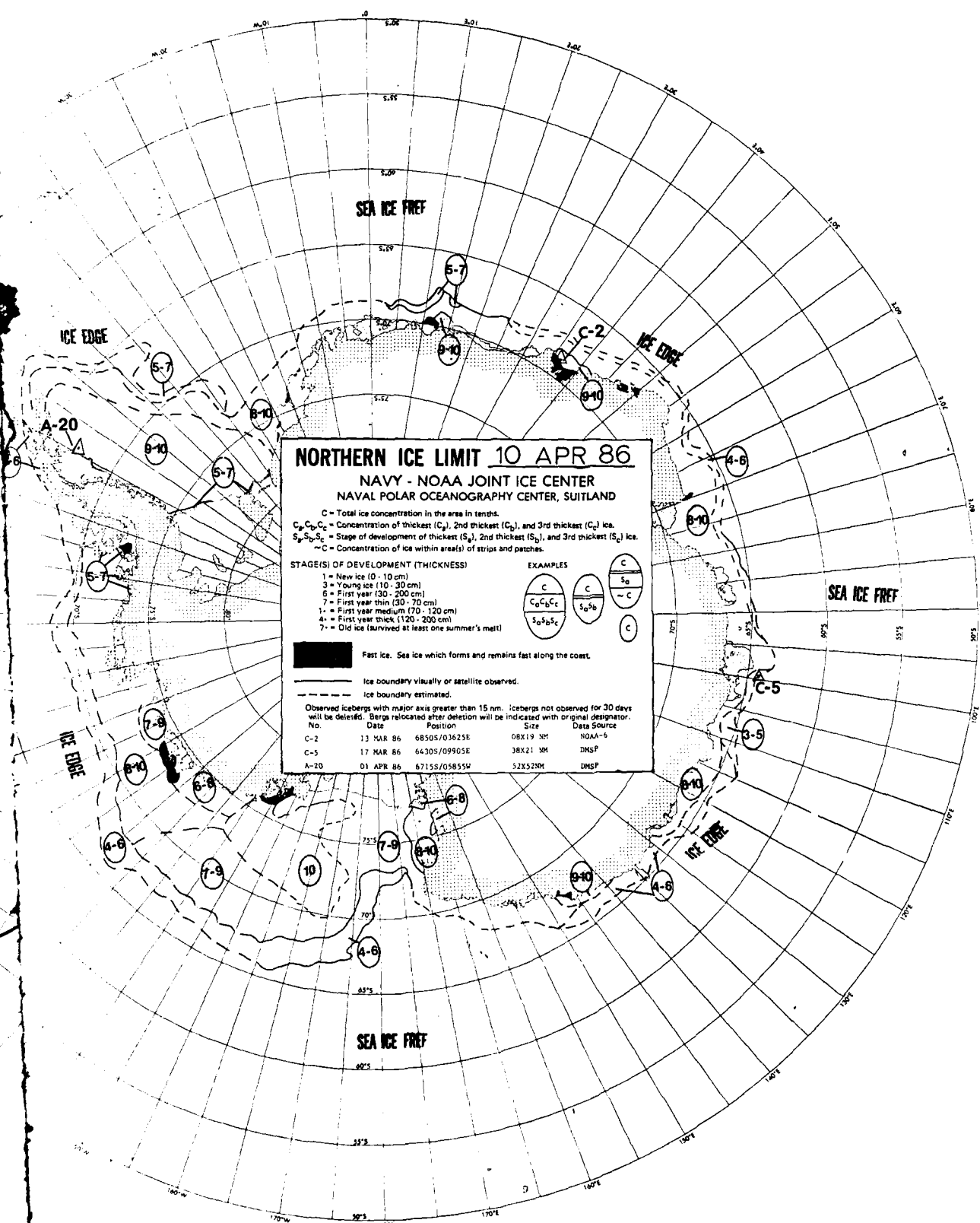


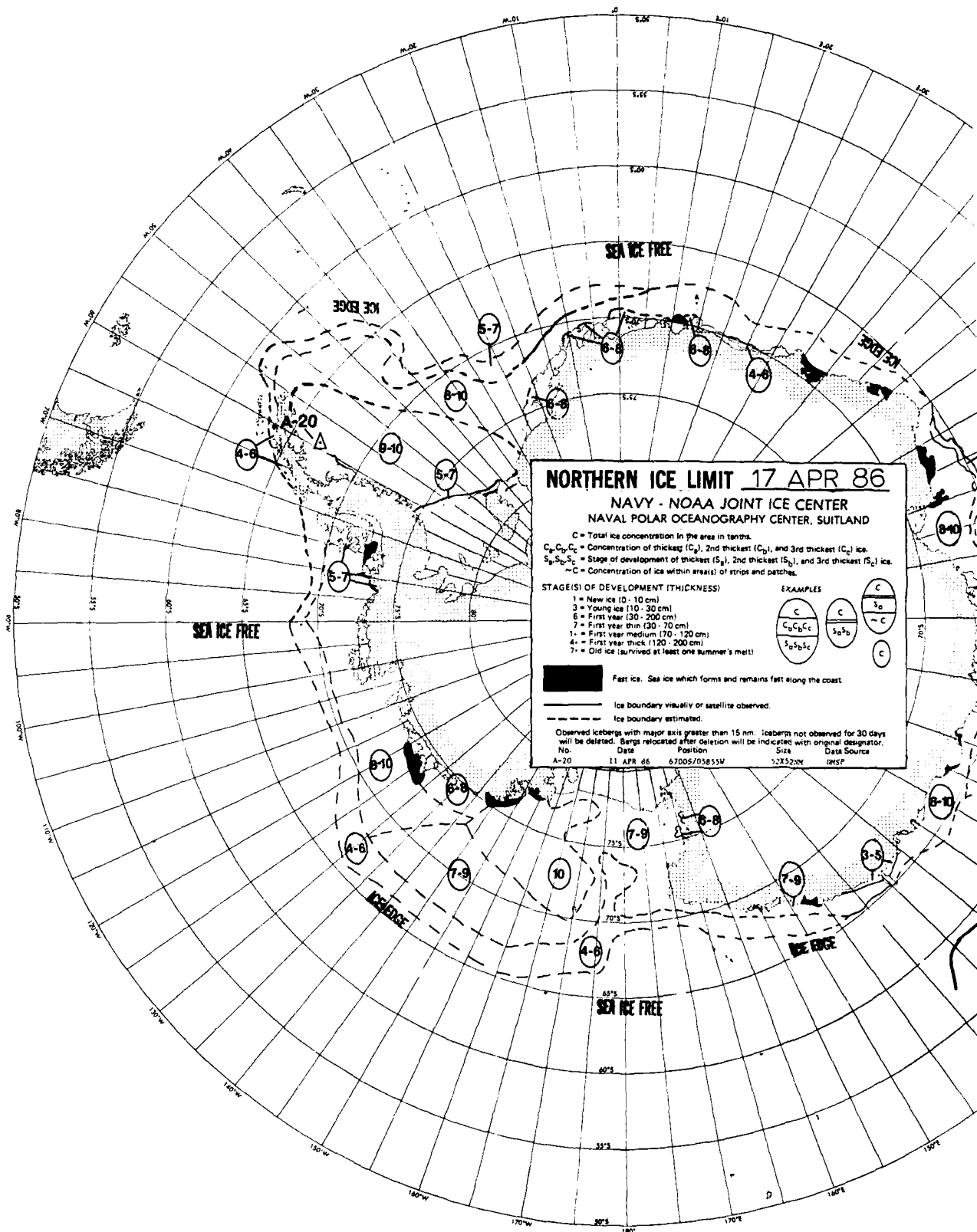


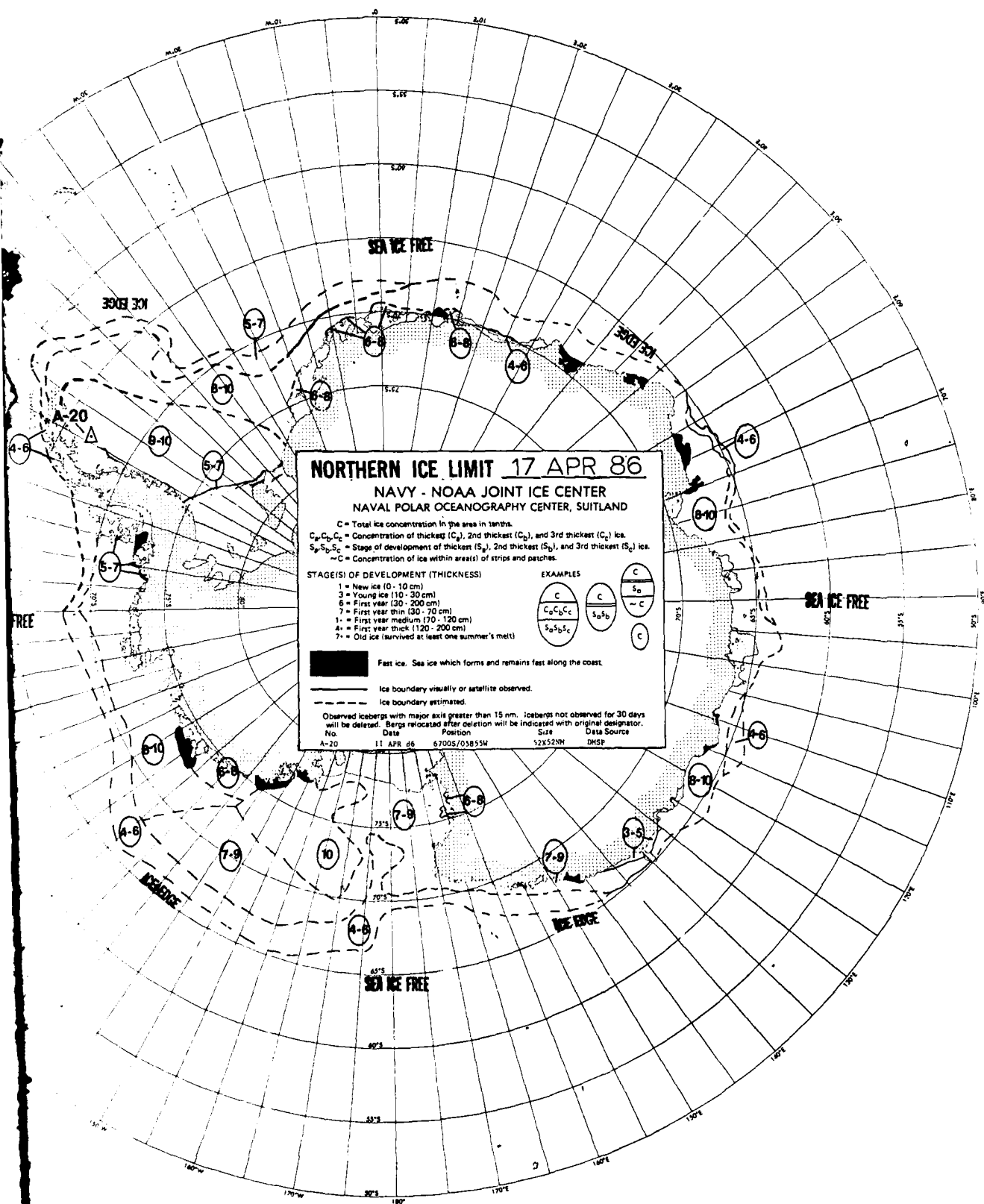


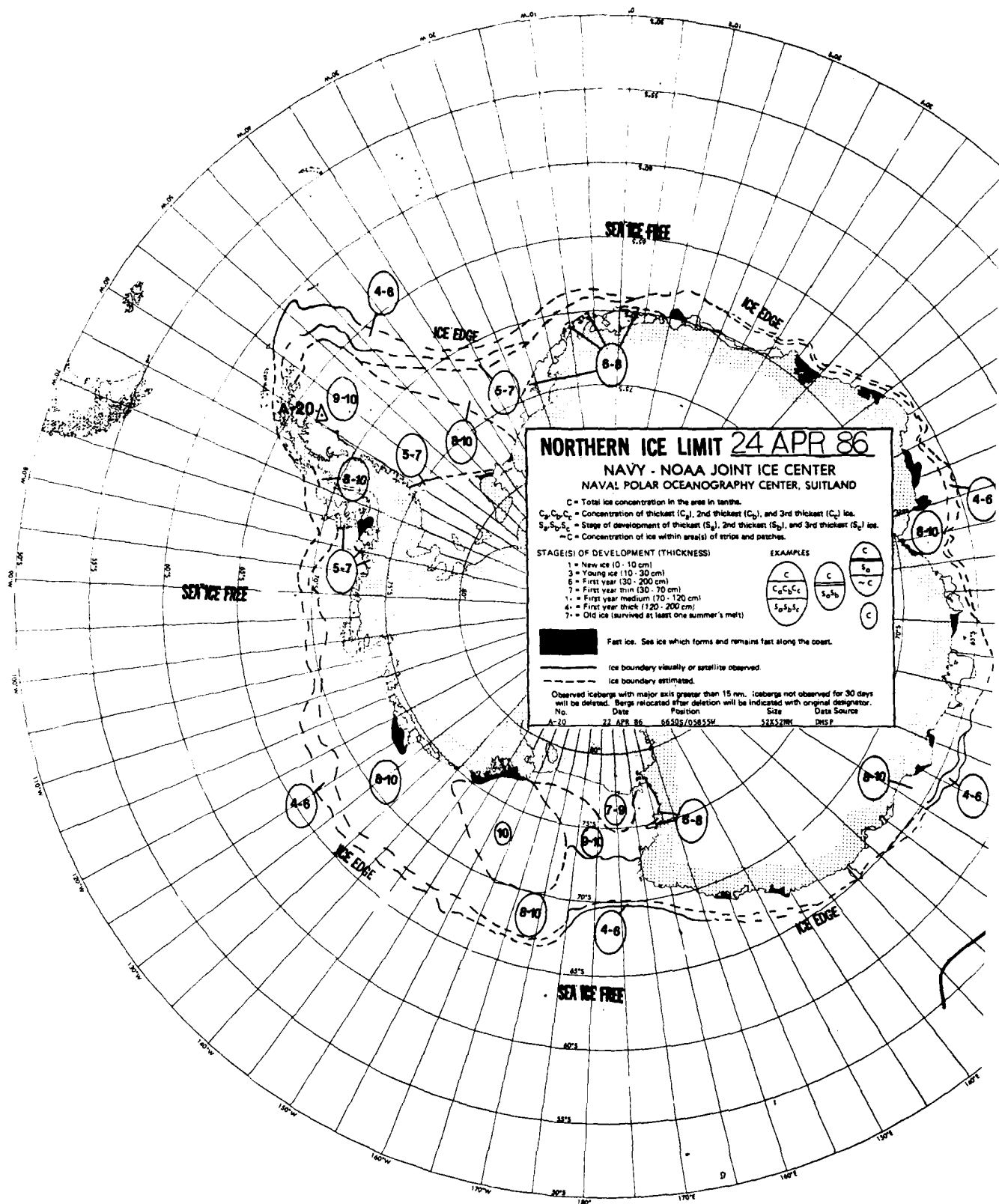


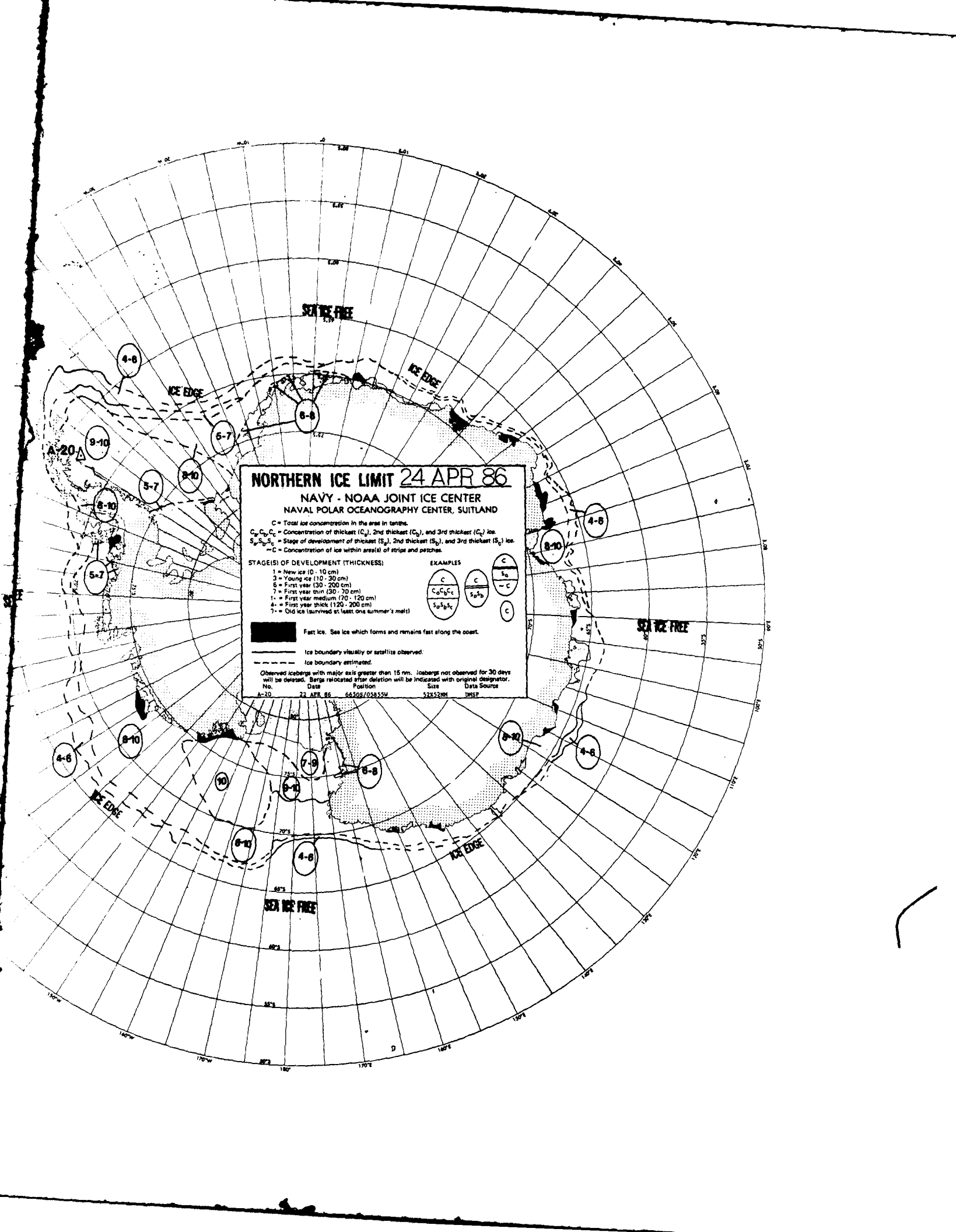


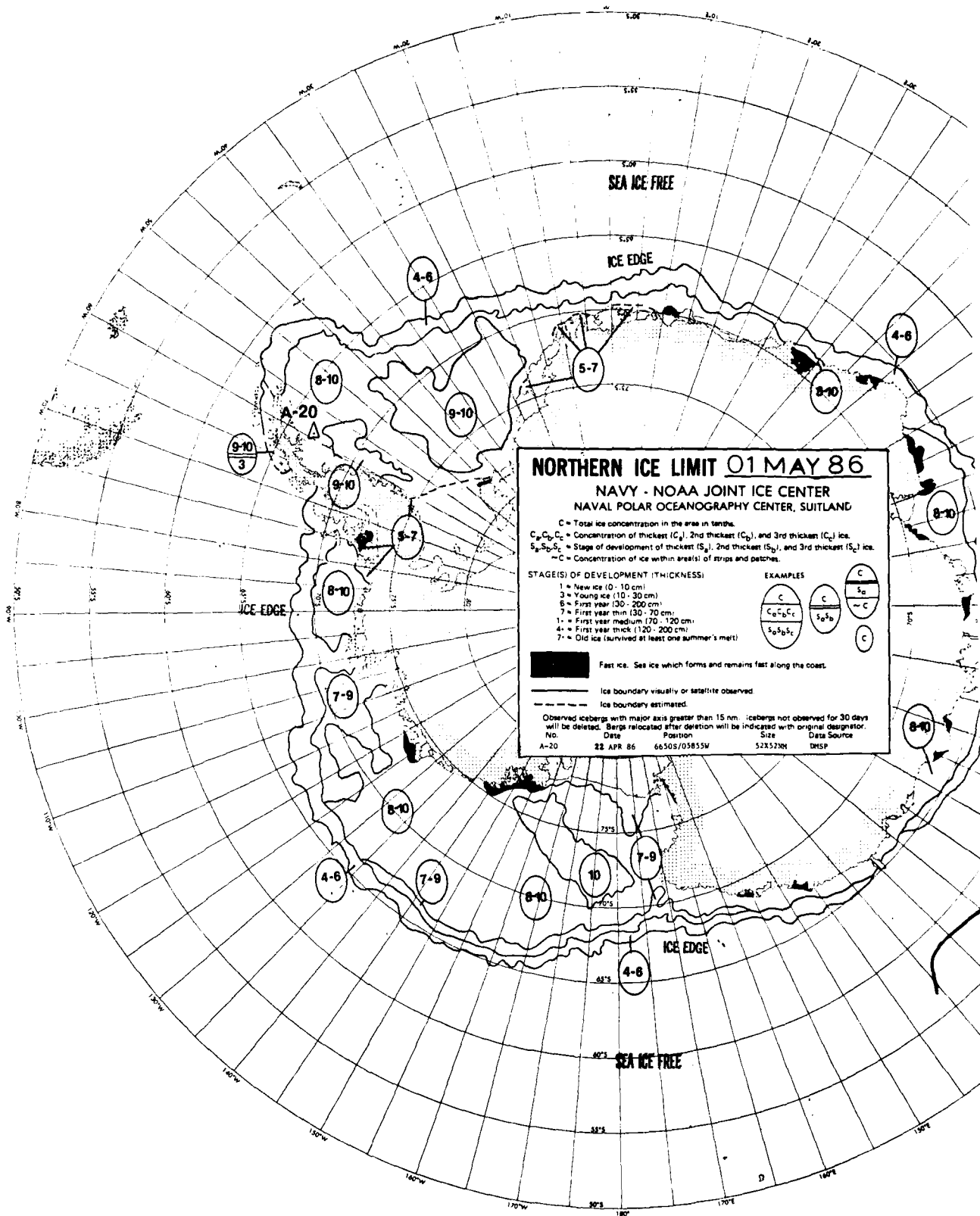


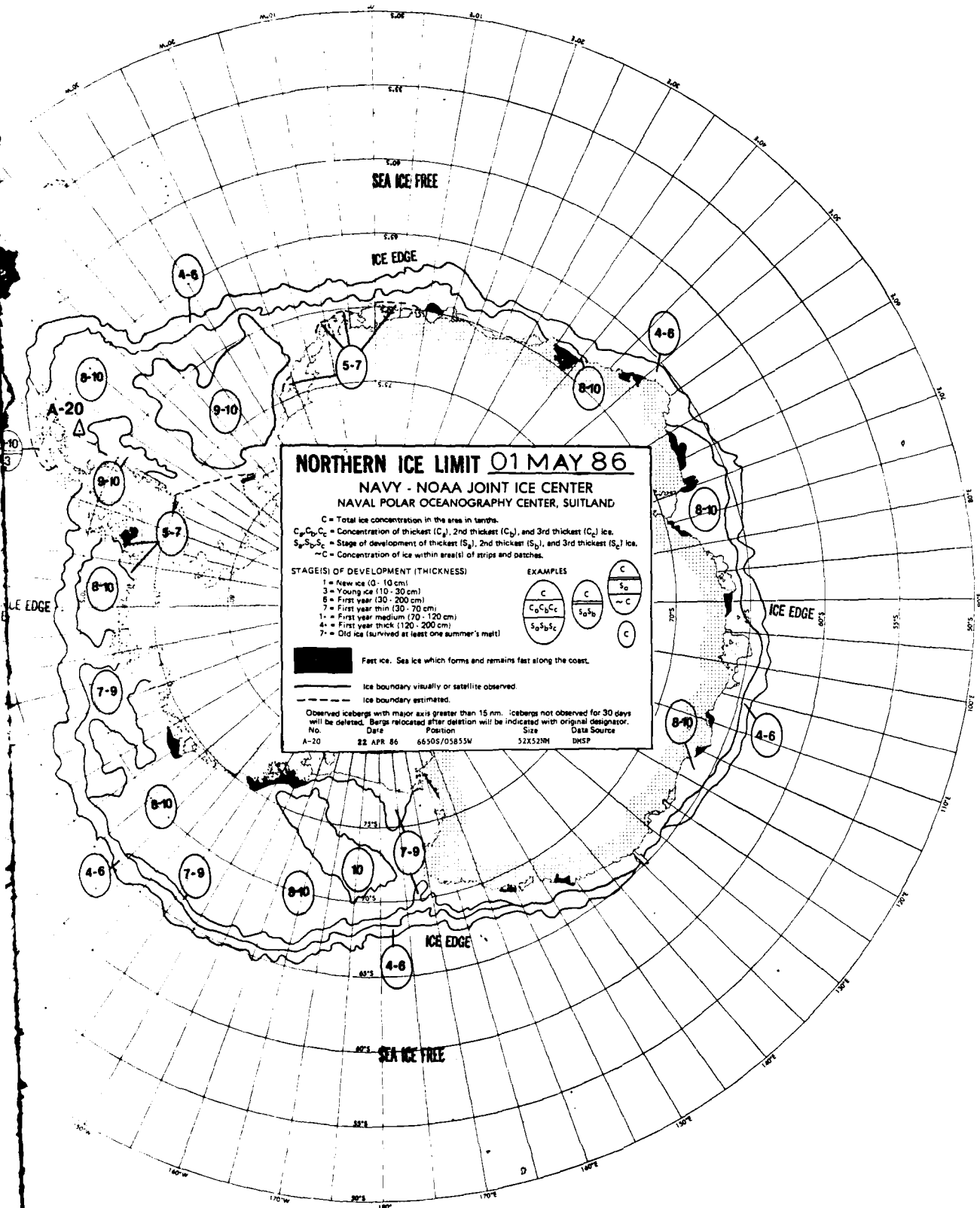


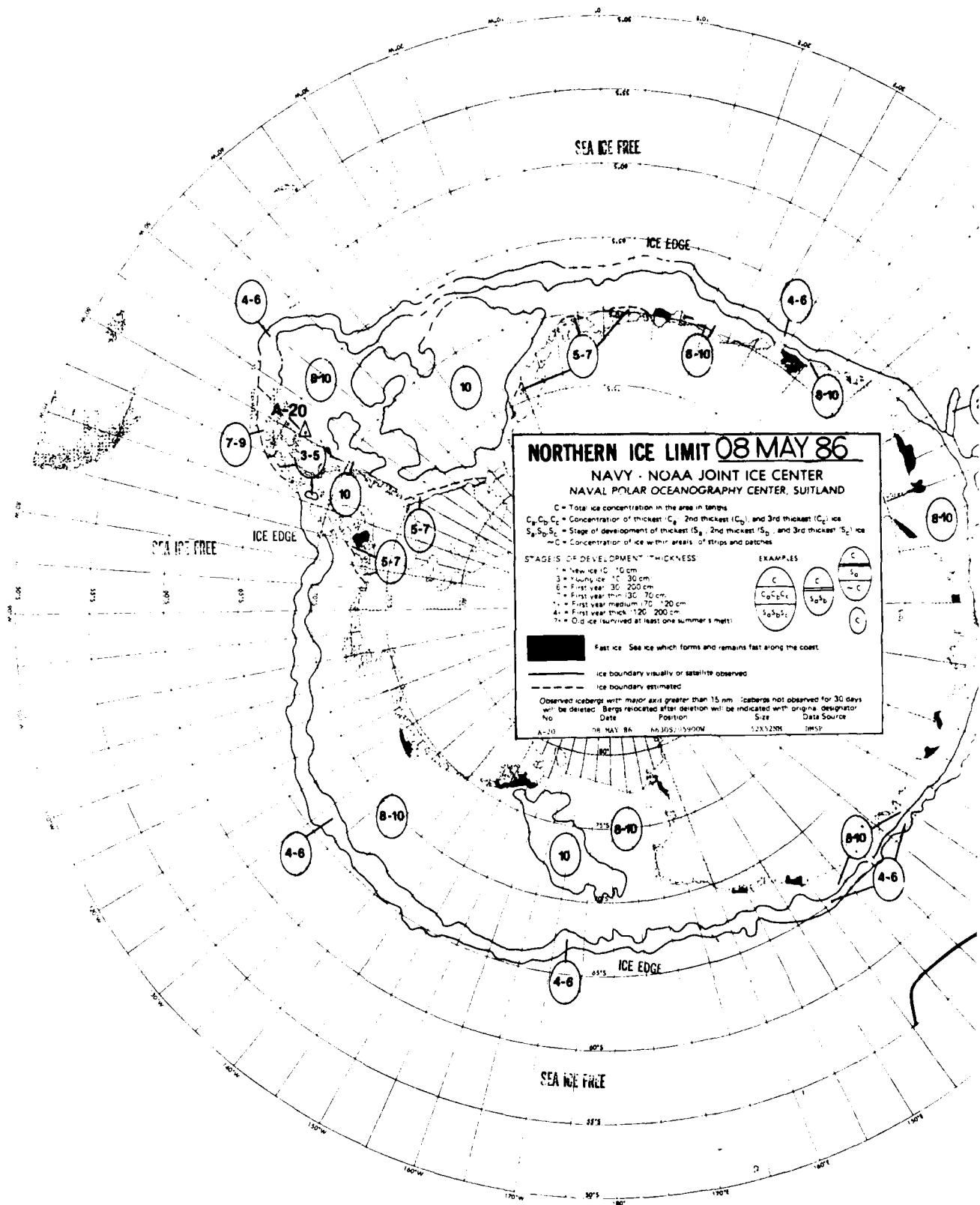


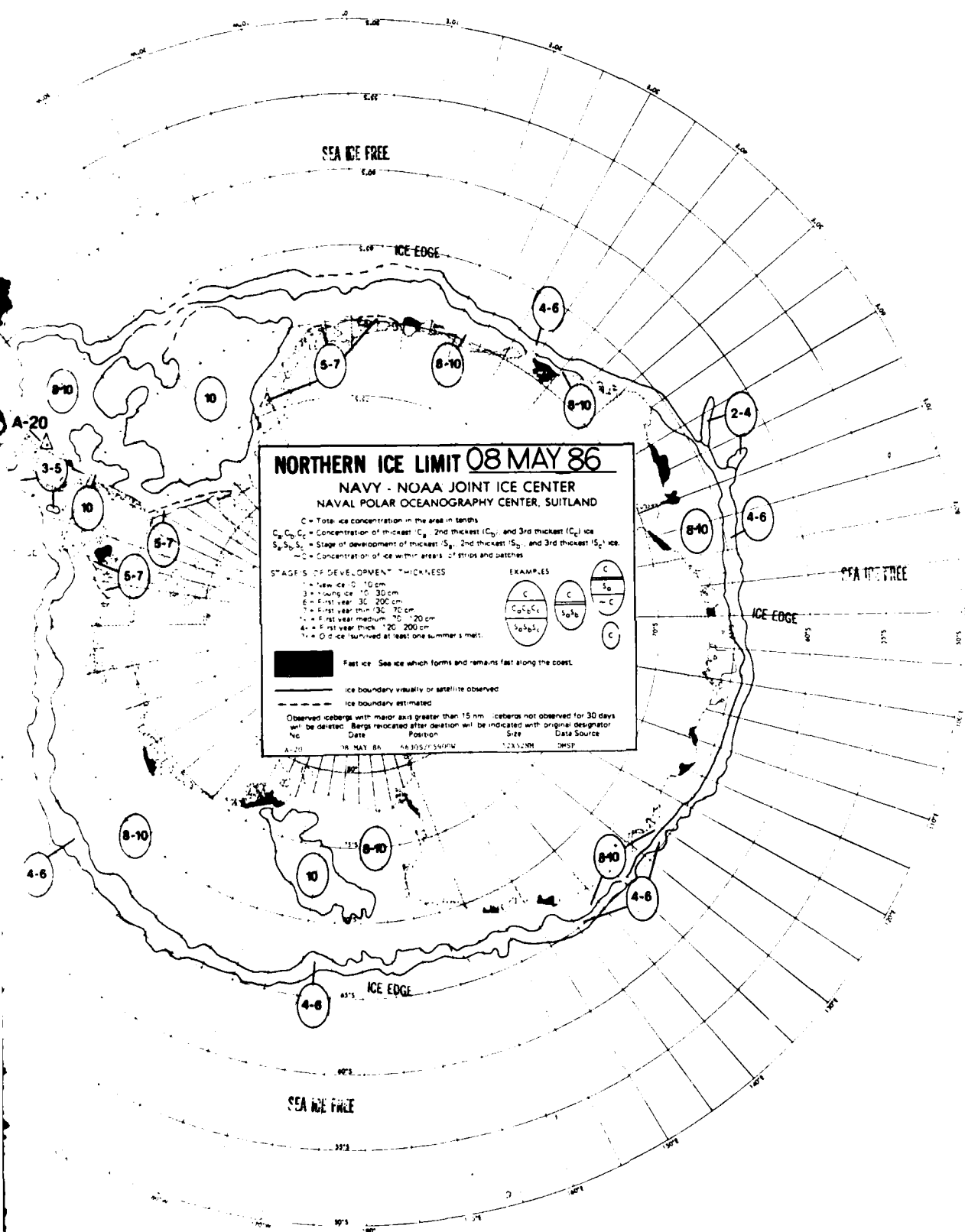


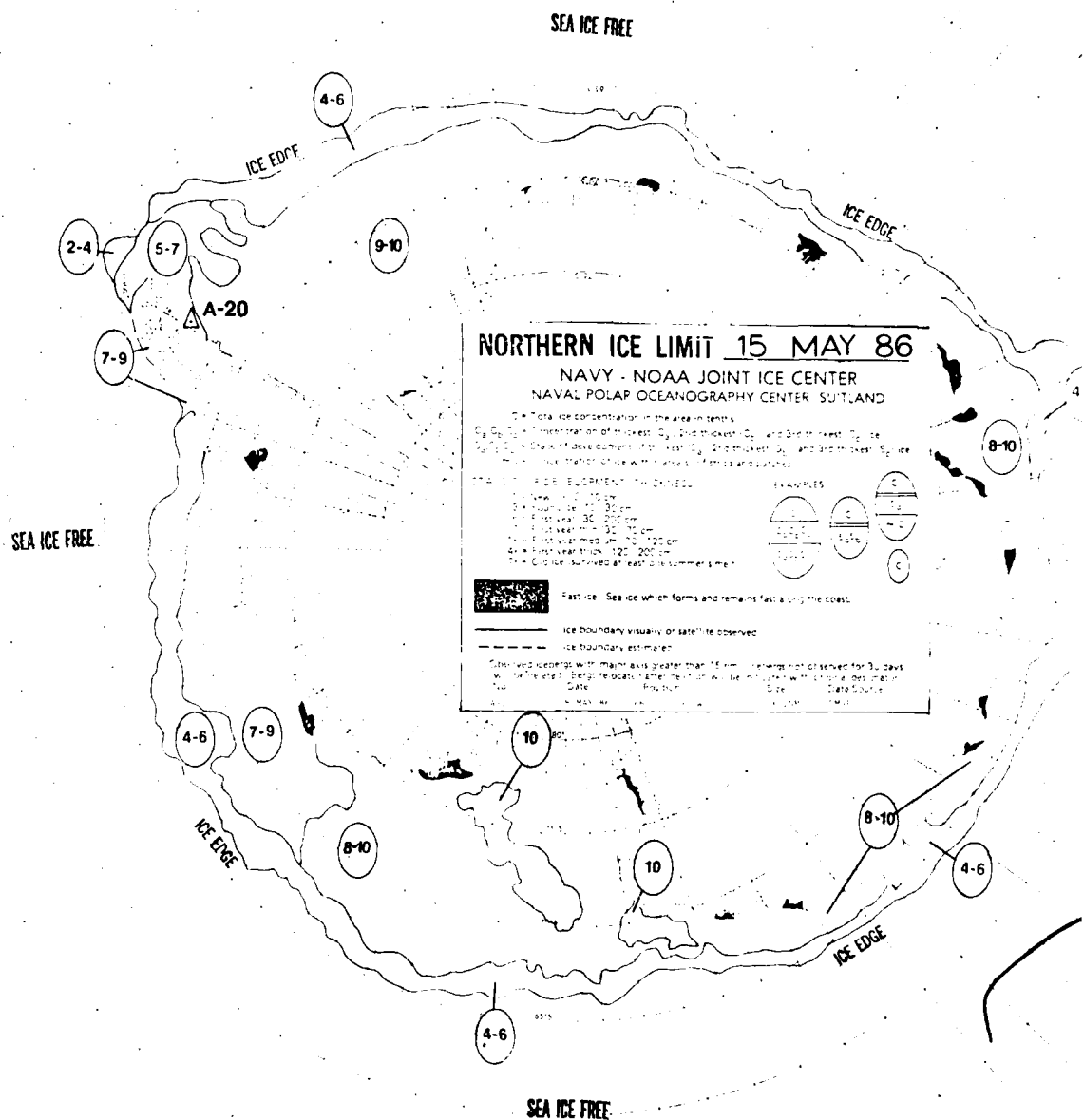


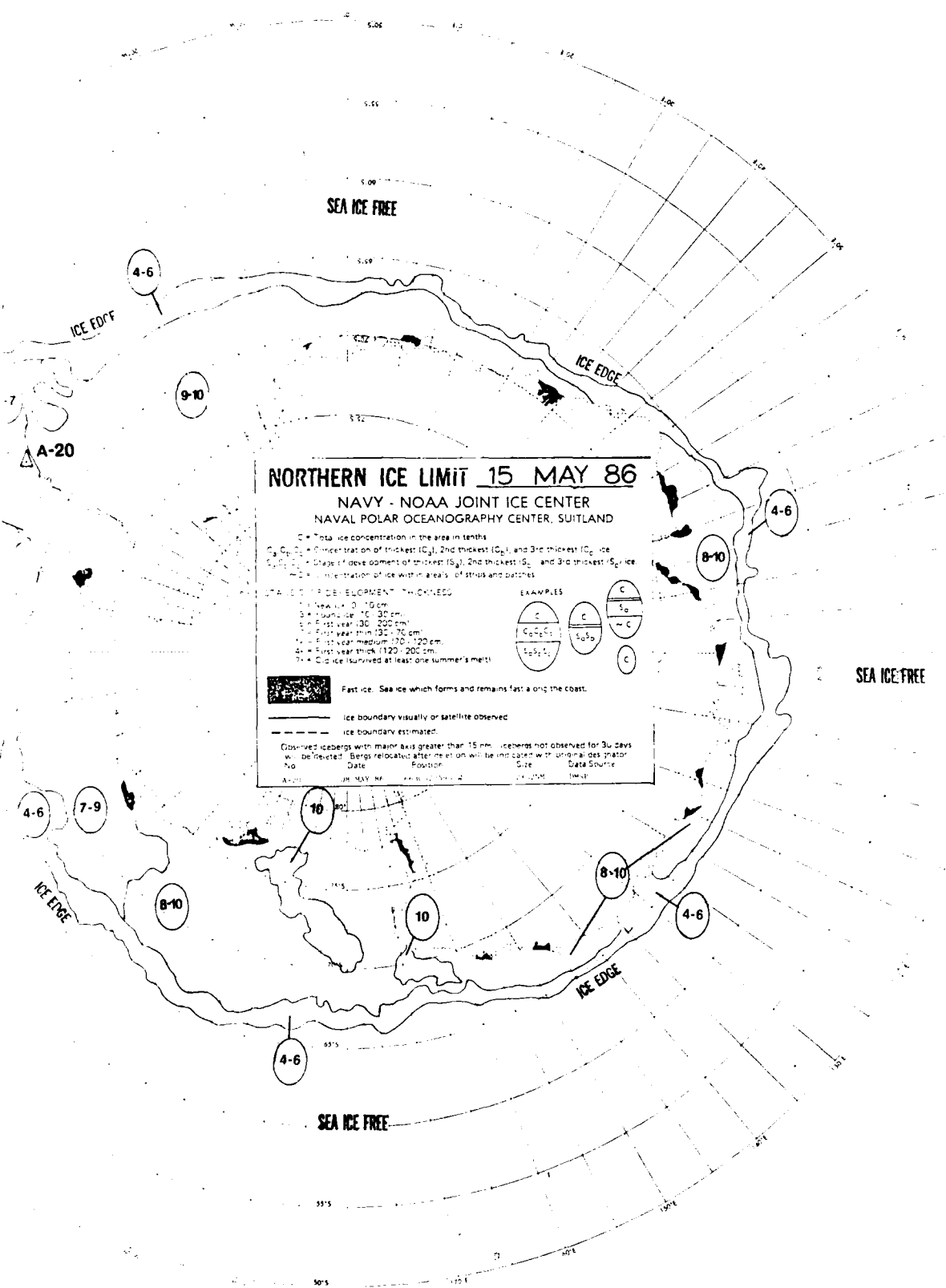


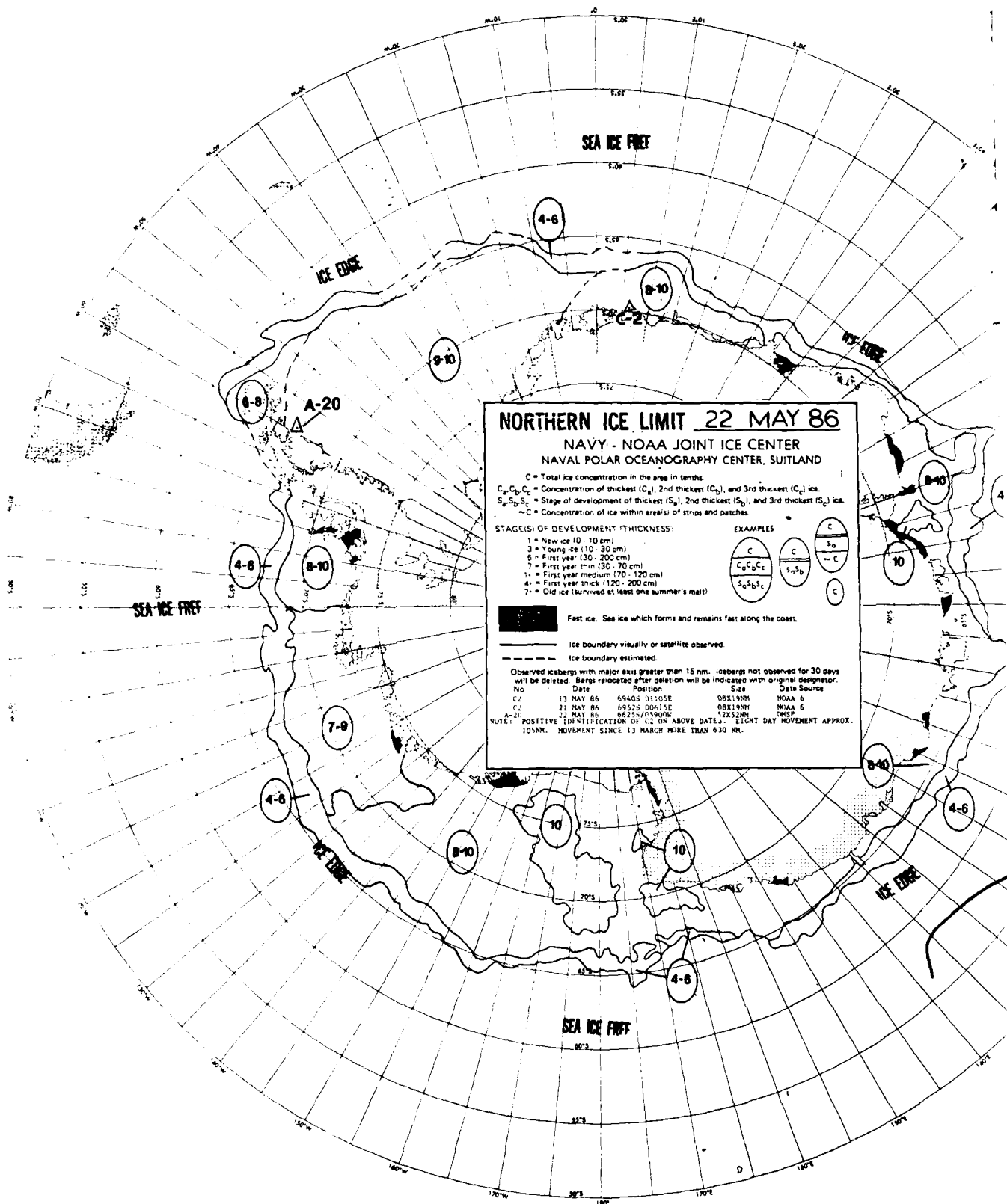


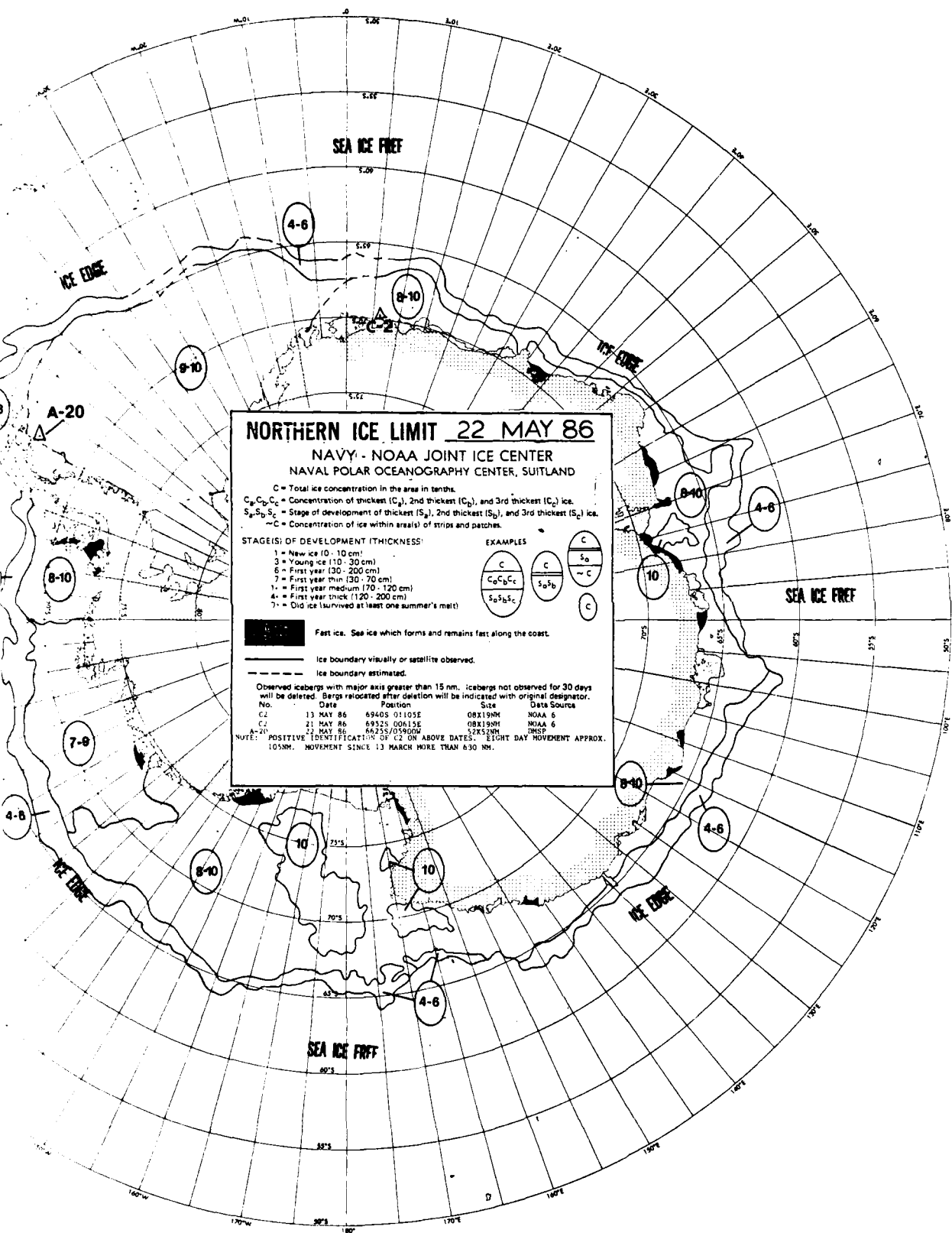


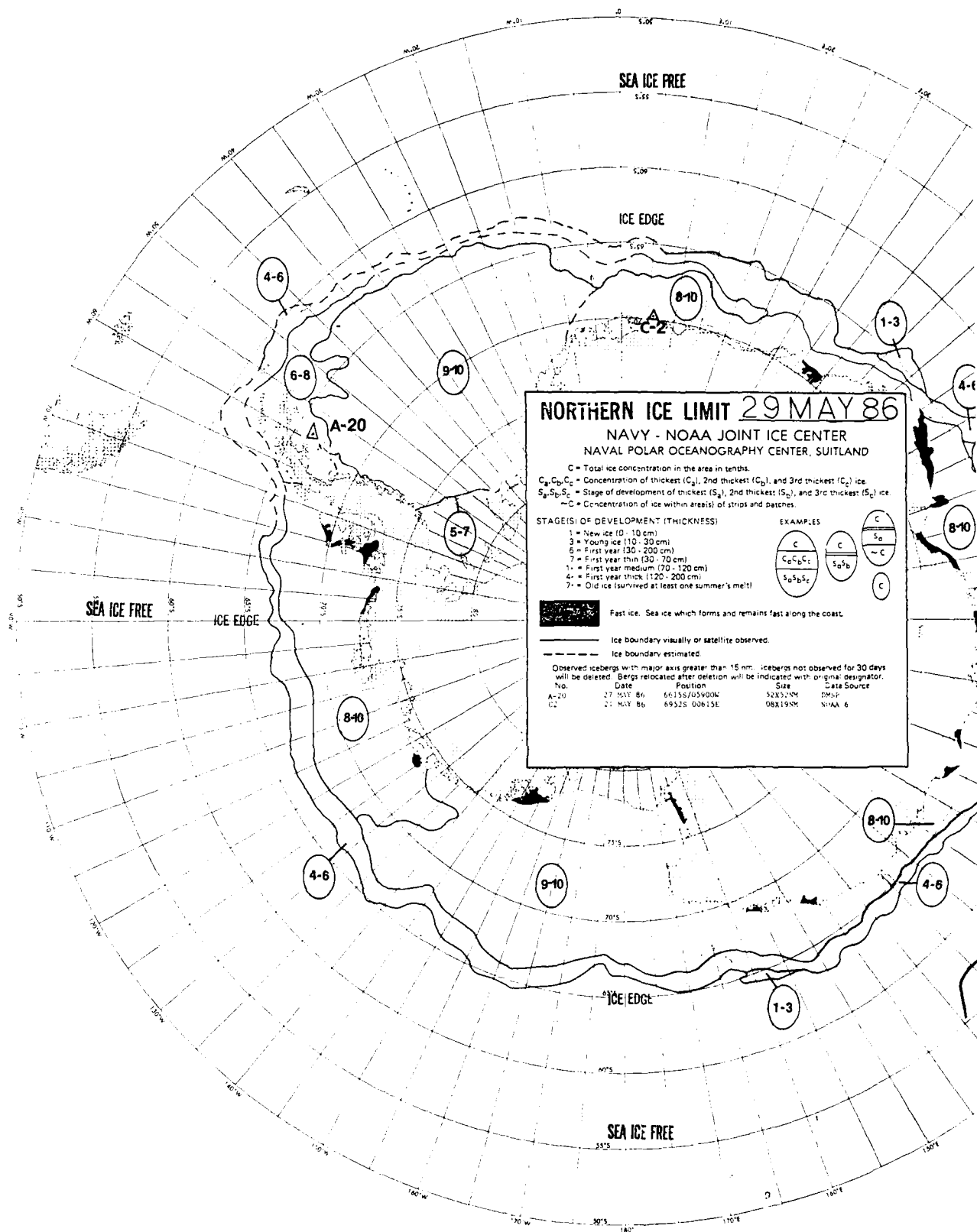


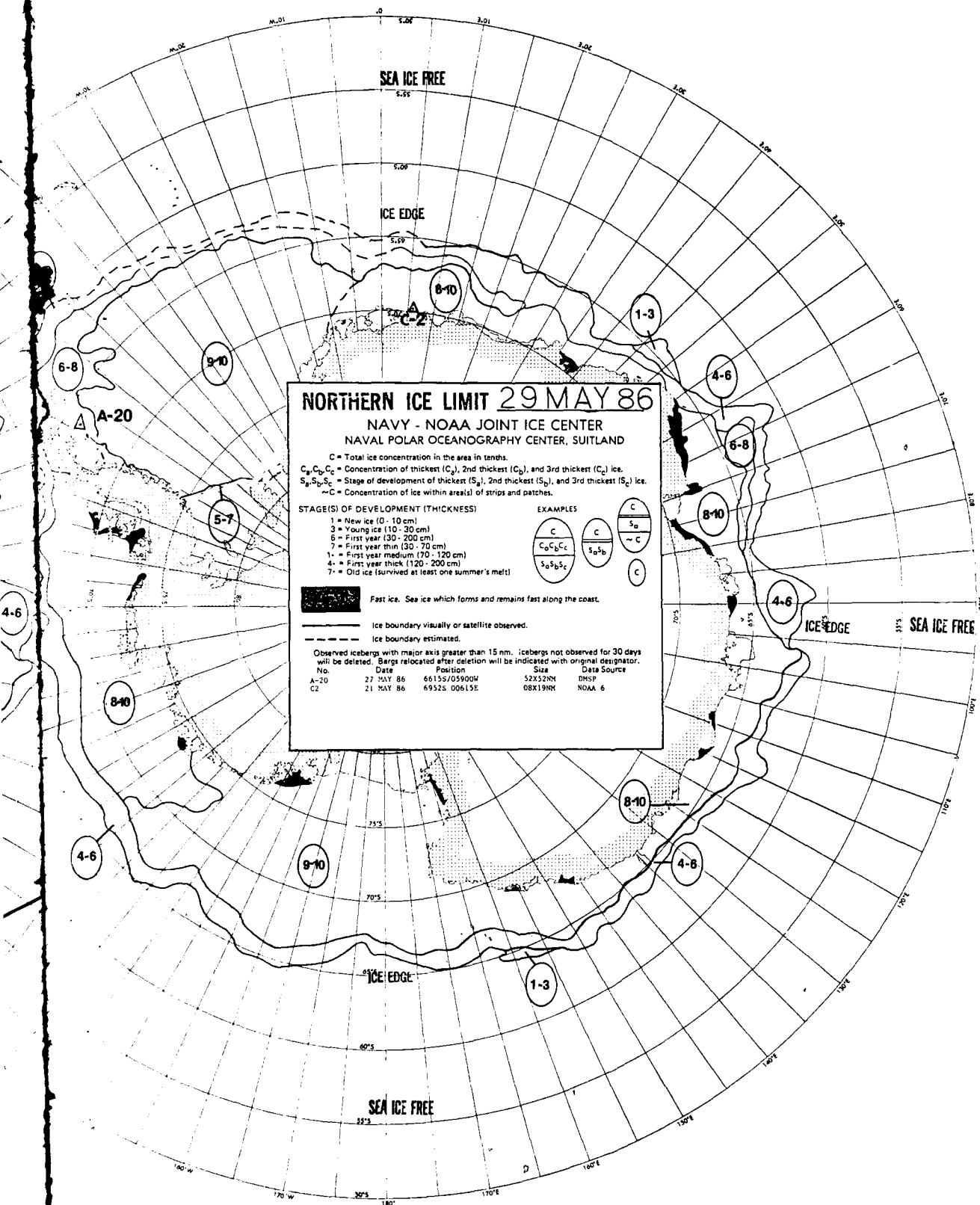


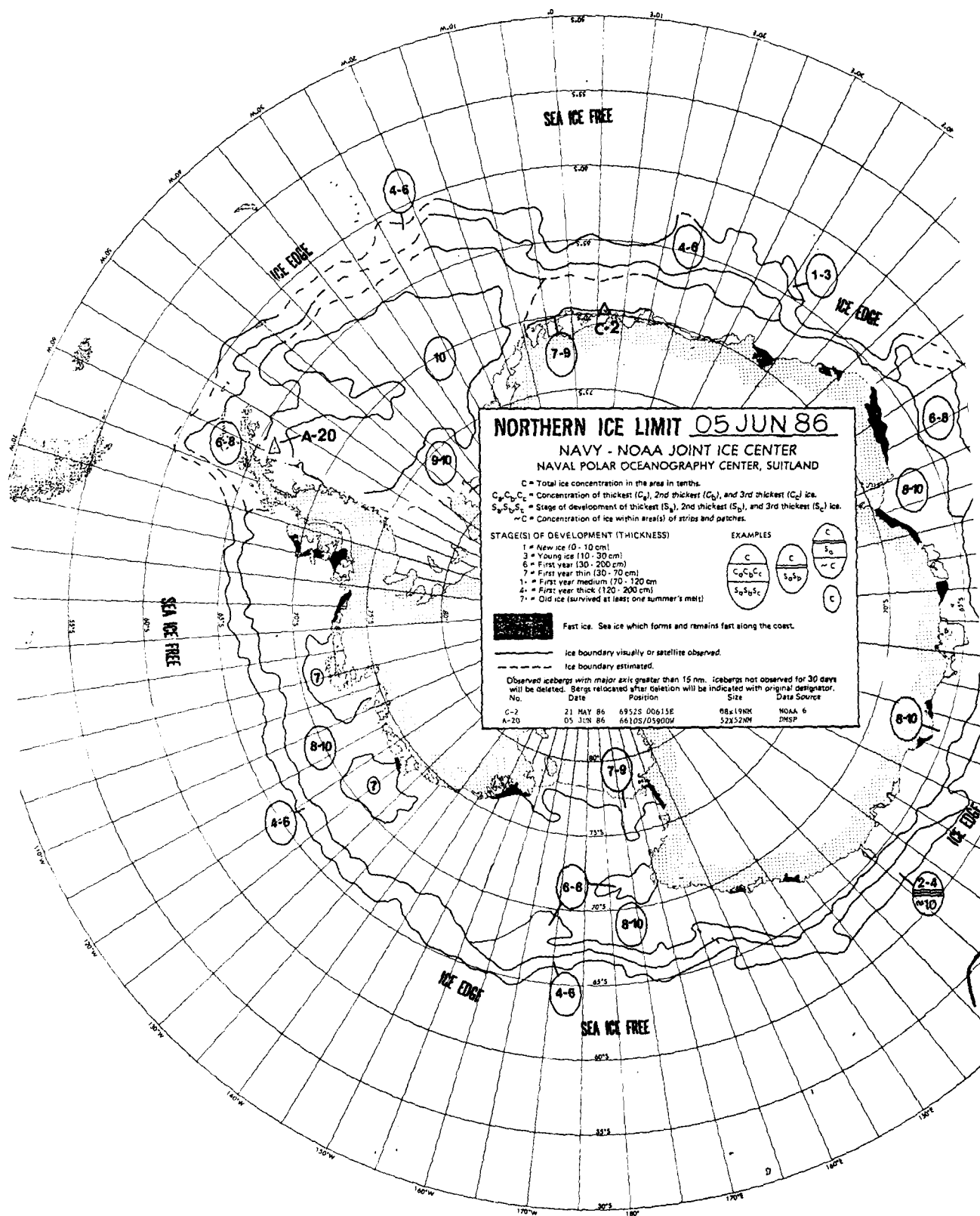


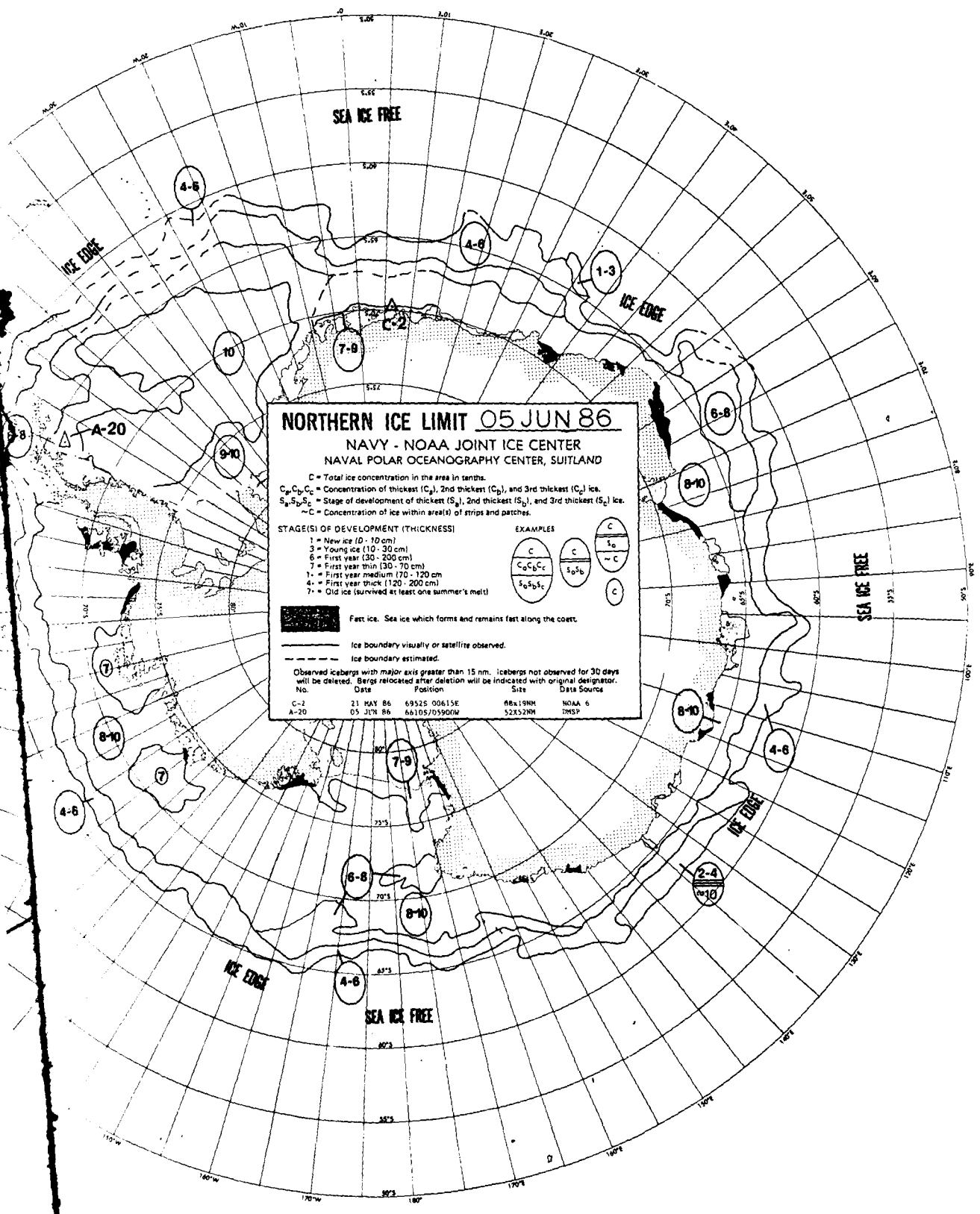












NORTHERN ICE LIMIT 05 JUN 86
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice.
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 $\sim C$ = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (10 - 10 cm)
- 2 = Young ice (10 - 30 cm)
- 3 = First year (30 - 200 cm)
- 4 = First year thin (30 - 70 cm)
- 5 = First year medium (70 - 120 cm)
- 6 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES

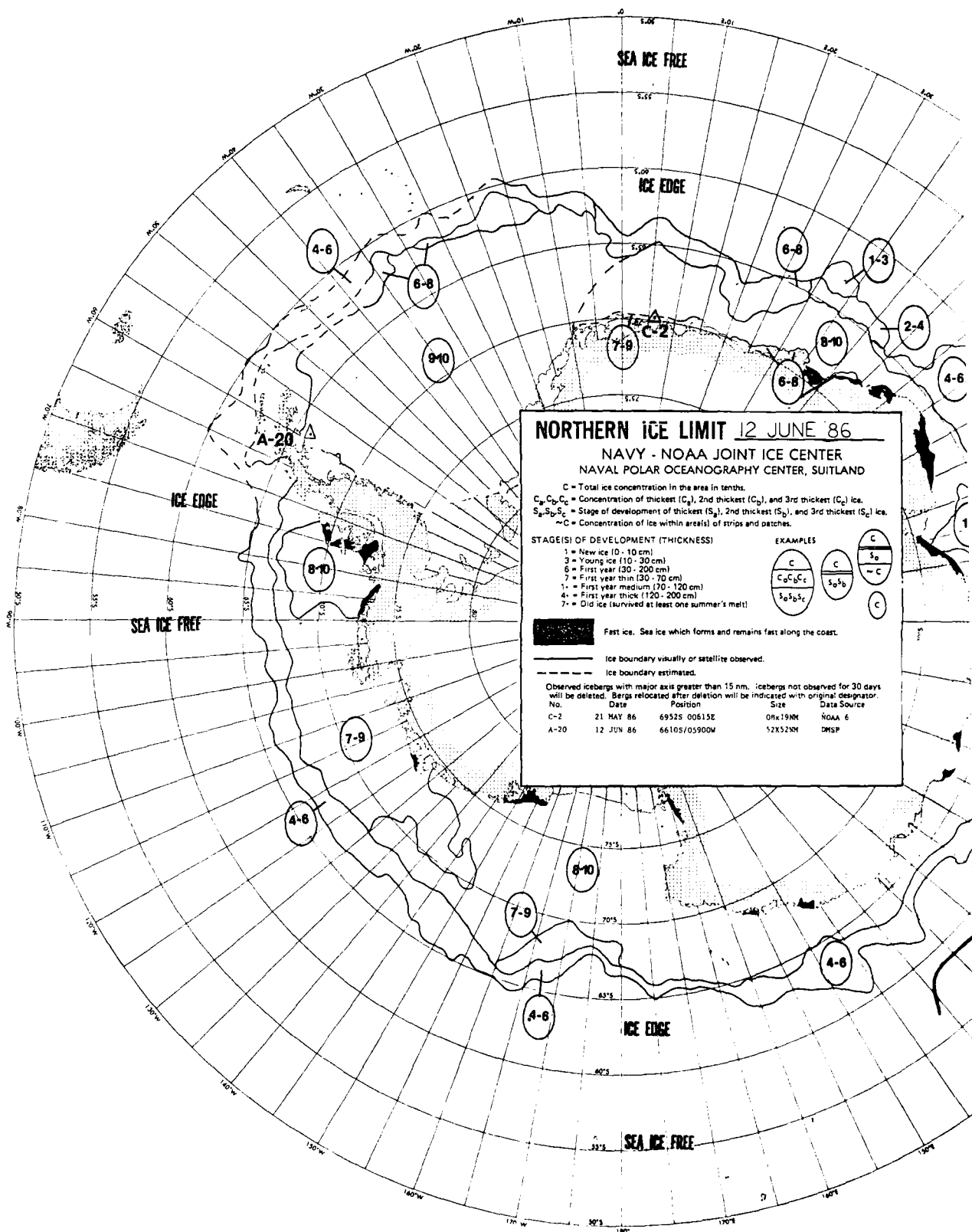
$\frac{C}{C_1 C_2 C_3}$	$\frac{C}{S_1 S_2 S_3}$	$\frac{C}{\sim C}$
$\frac{C}{S_1 S_2 S_3}$	$\frac{C}{S_1 S_2 S_3}$	$\frac{C}{\sim C}$

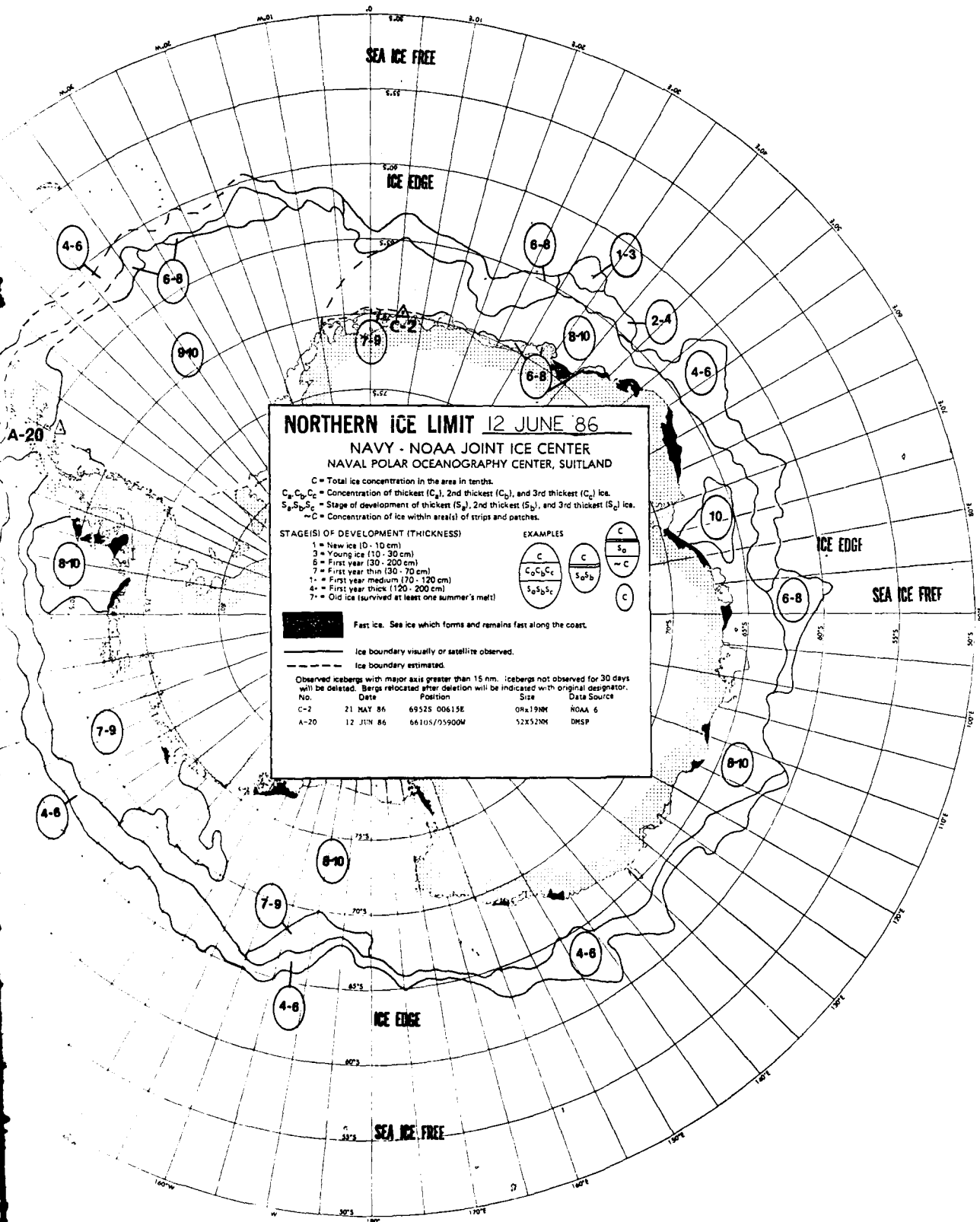
Fast ice. Sea ice which forms and remains fast along the coast.

— Ice boundary visually or satellite observed.
 --- Ice boundary estimated.

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Date Source
C-2	21 MAY 86	69525 00615E	88x19NM	NOAA 6
A-20	05 JUN 86	66105/05900W	52x52NM	DMSP





NORTHERN ICE LIMIT 12 JUNE 86

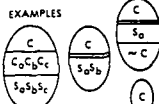
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice.
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 $\sim C$ = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
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- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES

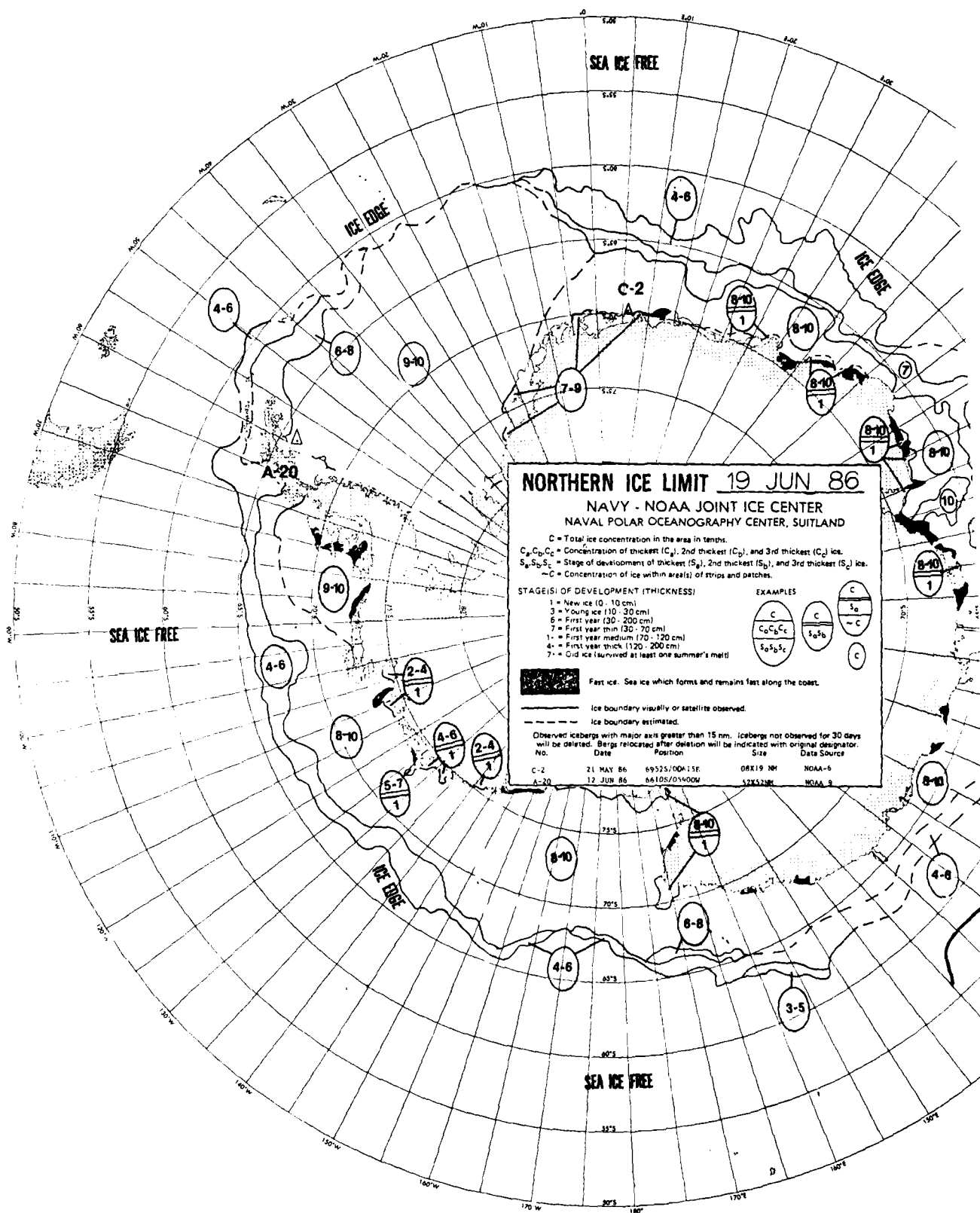


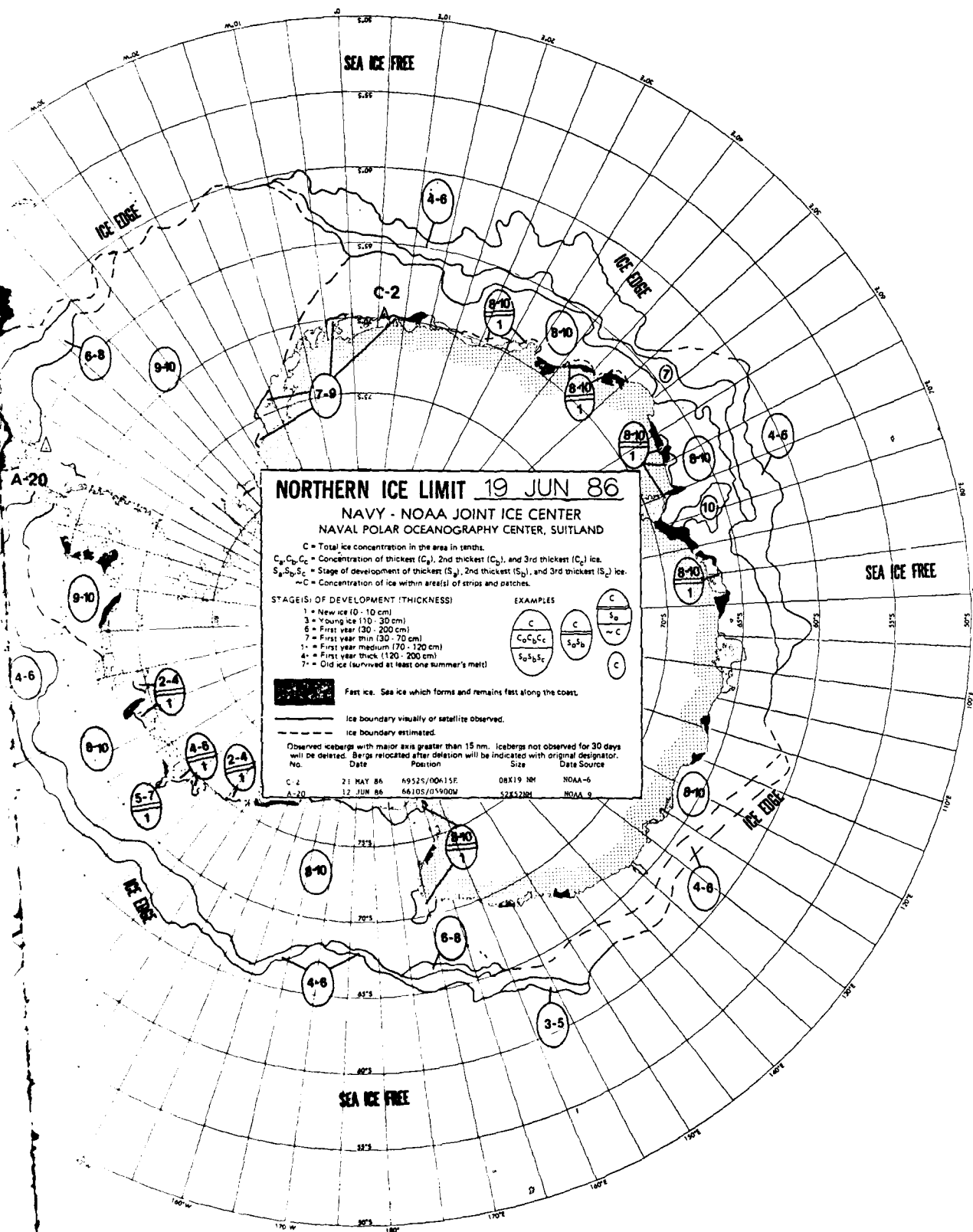
Fast ice. Sea ice which forms and remains fast along the coast.

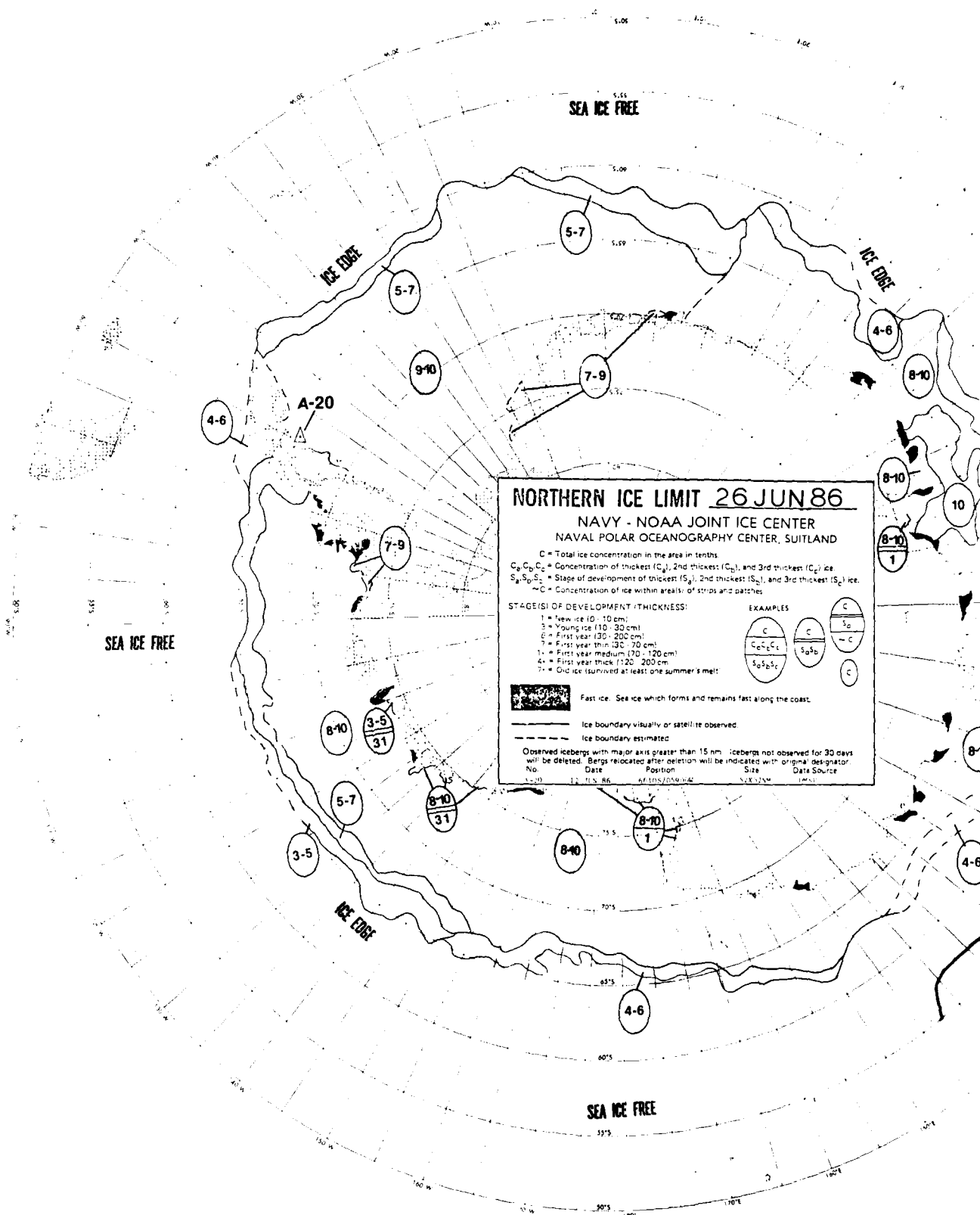
Ice boundary visually or satellite observed.
 Ice boundary estimated.

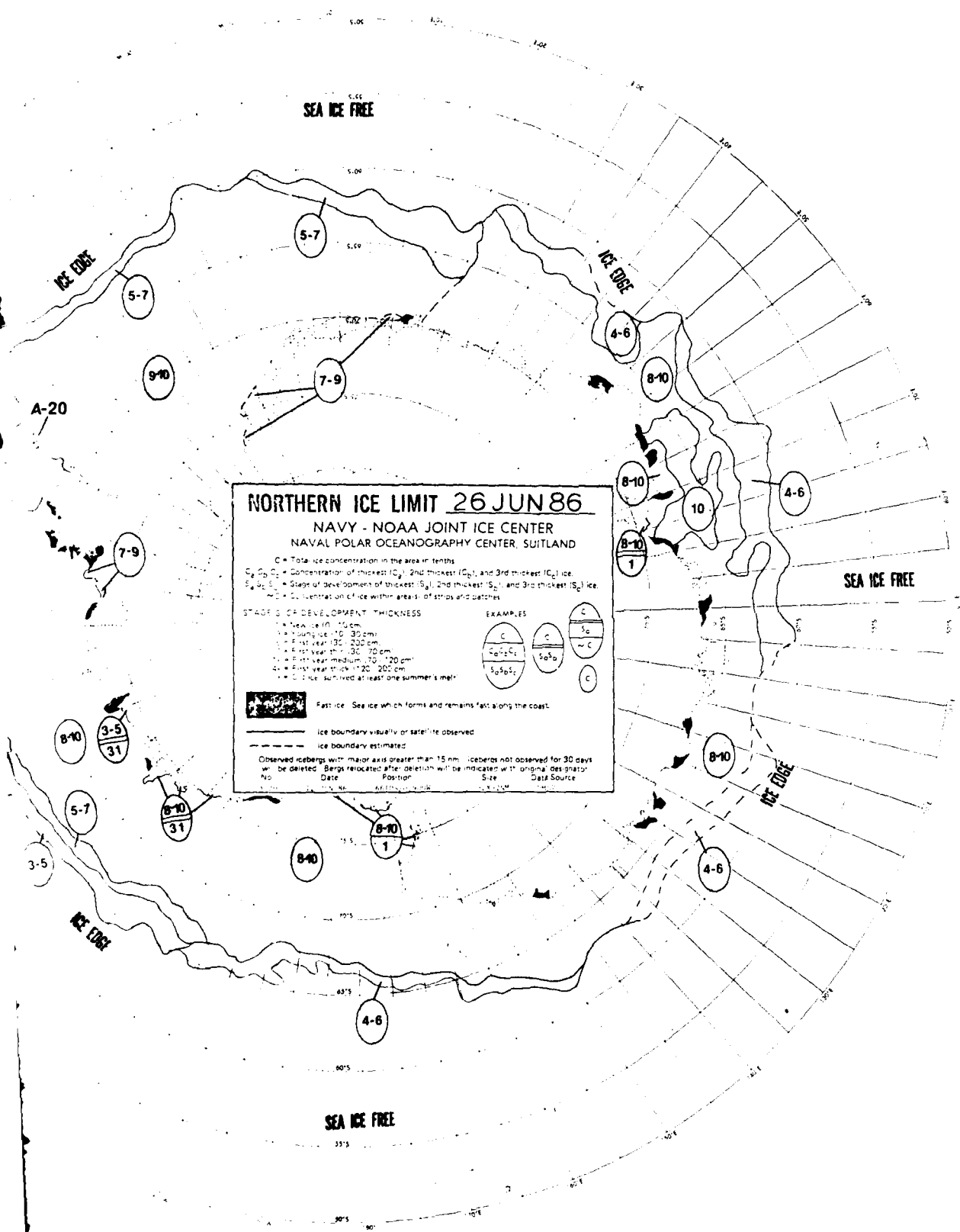
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

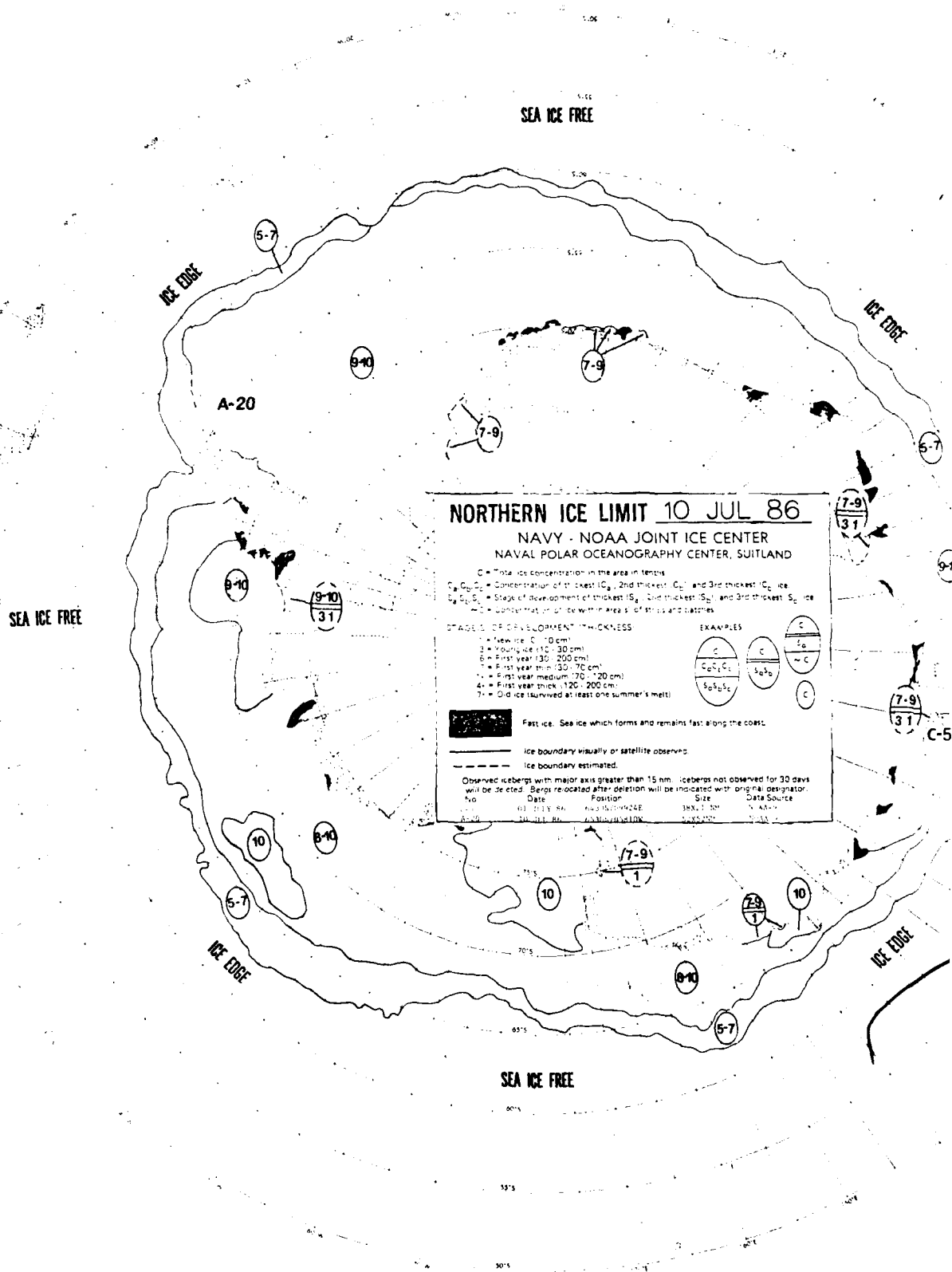
No.	Date	Position	Size	Data Source
C-2	21 MAY 86	69525 00613E	09x19NM	NOAA 6
A-20	12 JUN 86	66105/95900W	52x52NM	DMSP

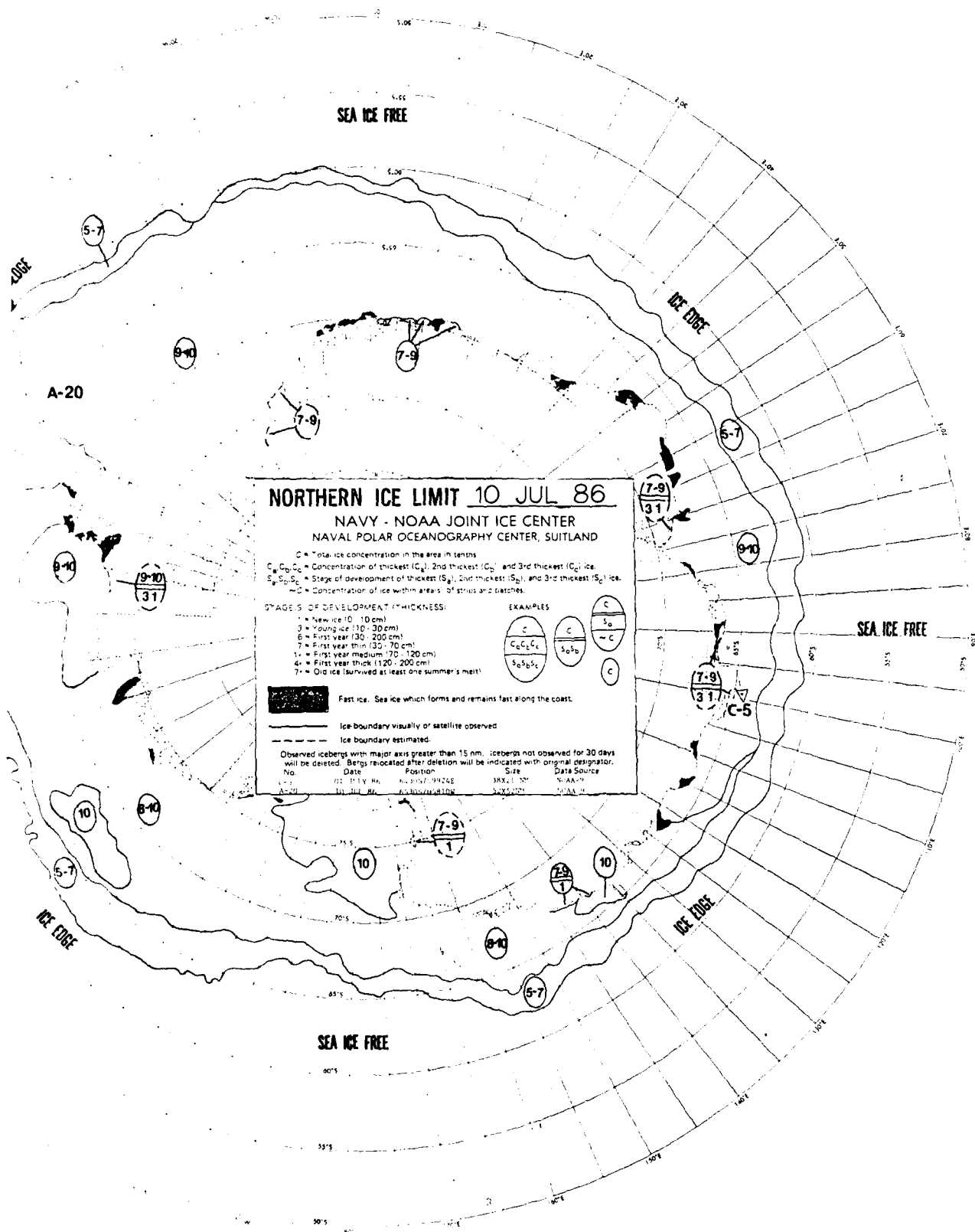


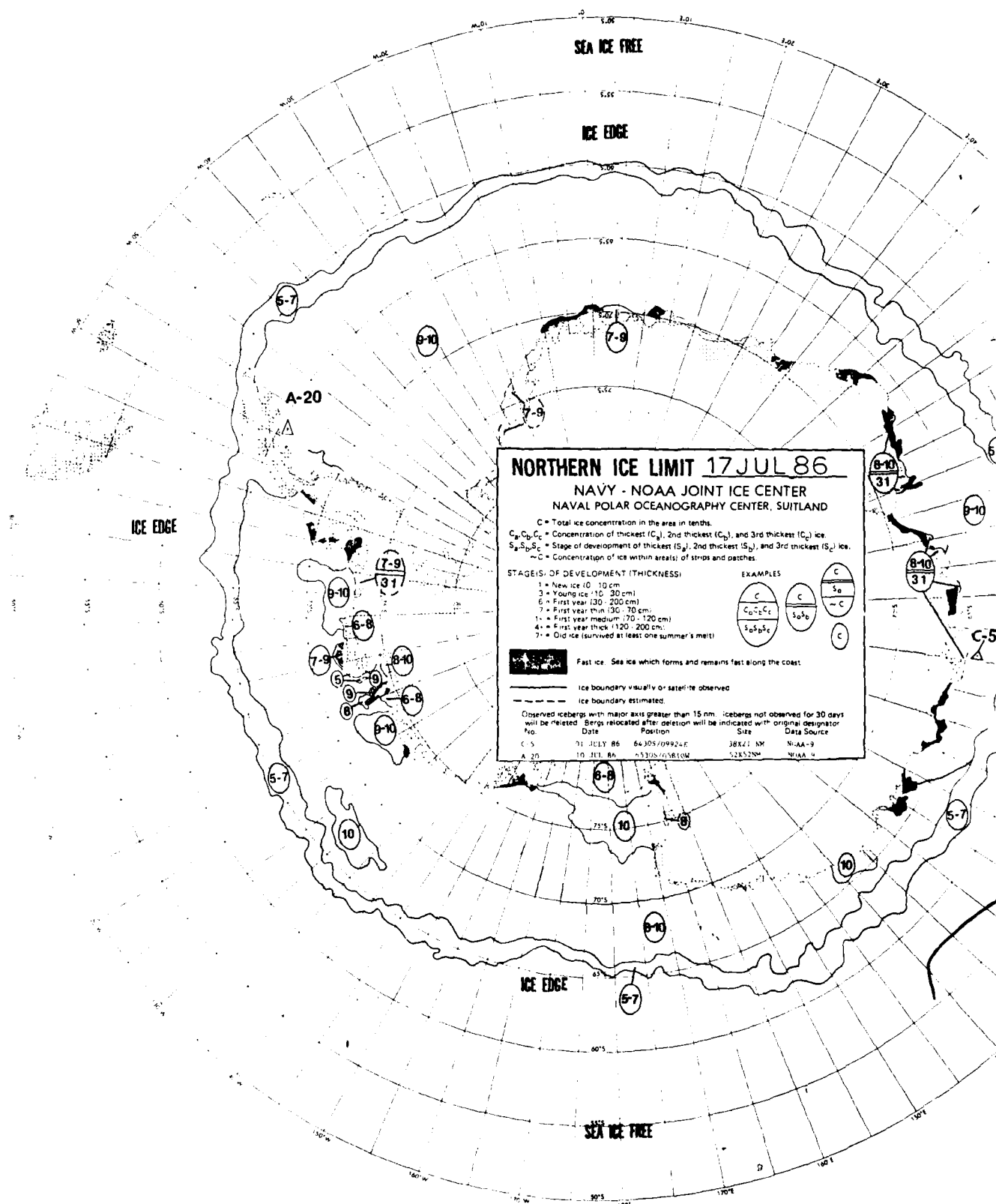












NORTHERN ICE LIMIT 17 JUL 86

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
 C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
 S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
 -C = Concentration of ice within areas of strips and patches.

STAGES OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES

C	C	C
C ₁ -C ₂ -C ₃	S ₁ -S ₂ -S ₃	-C
S ₁ -S ₂ -S ₃	C	C

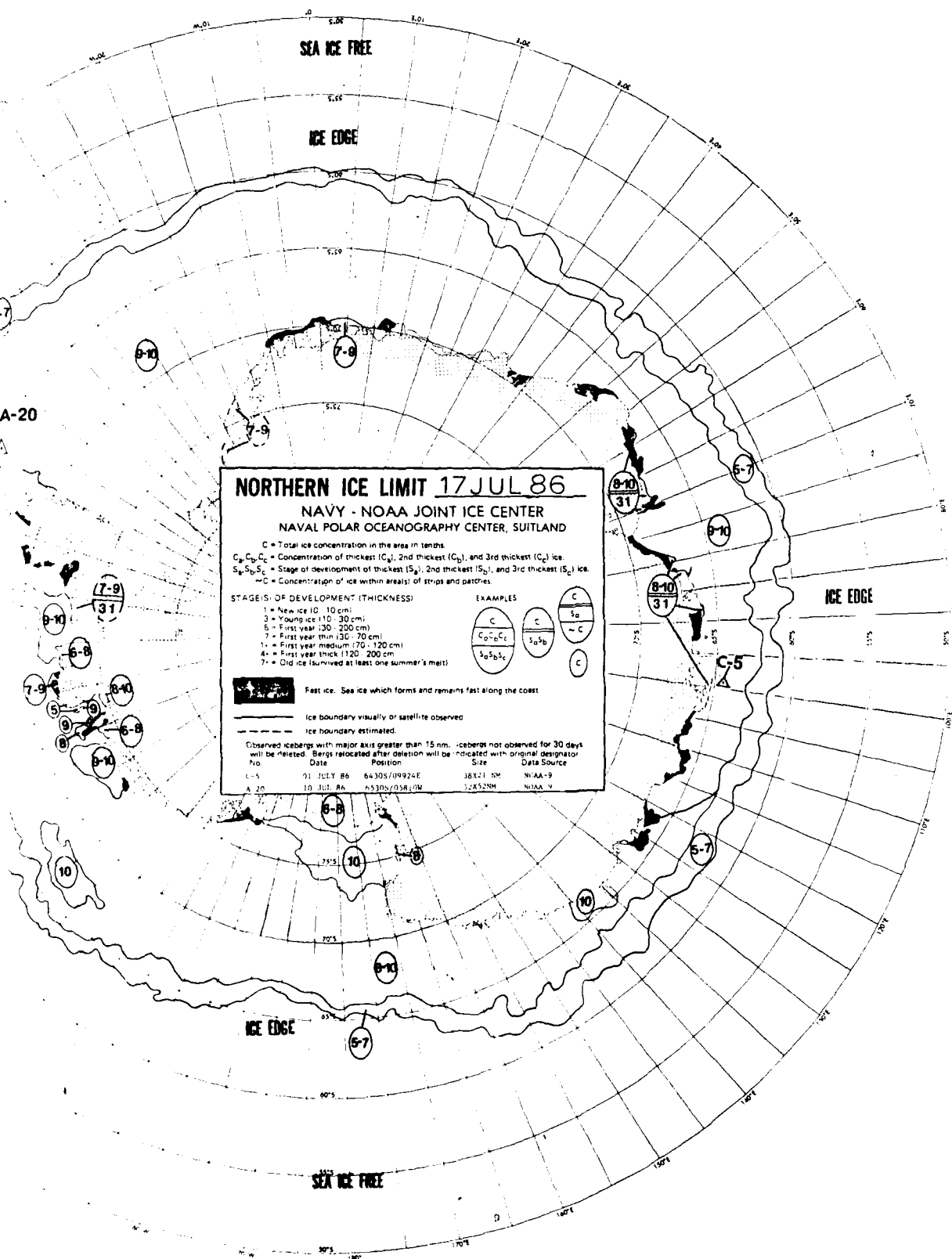
Fast ice. See ice which forms and remains fast along the coast.

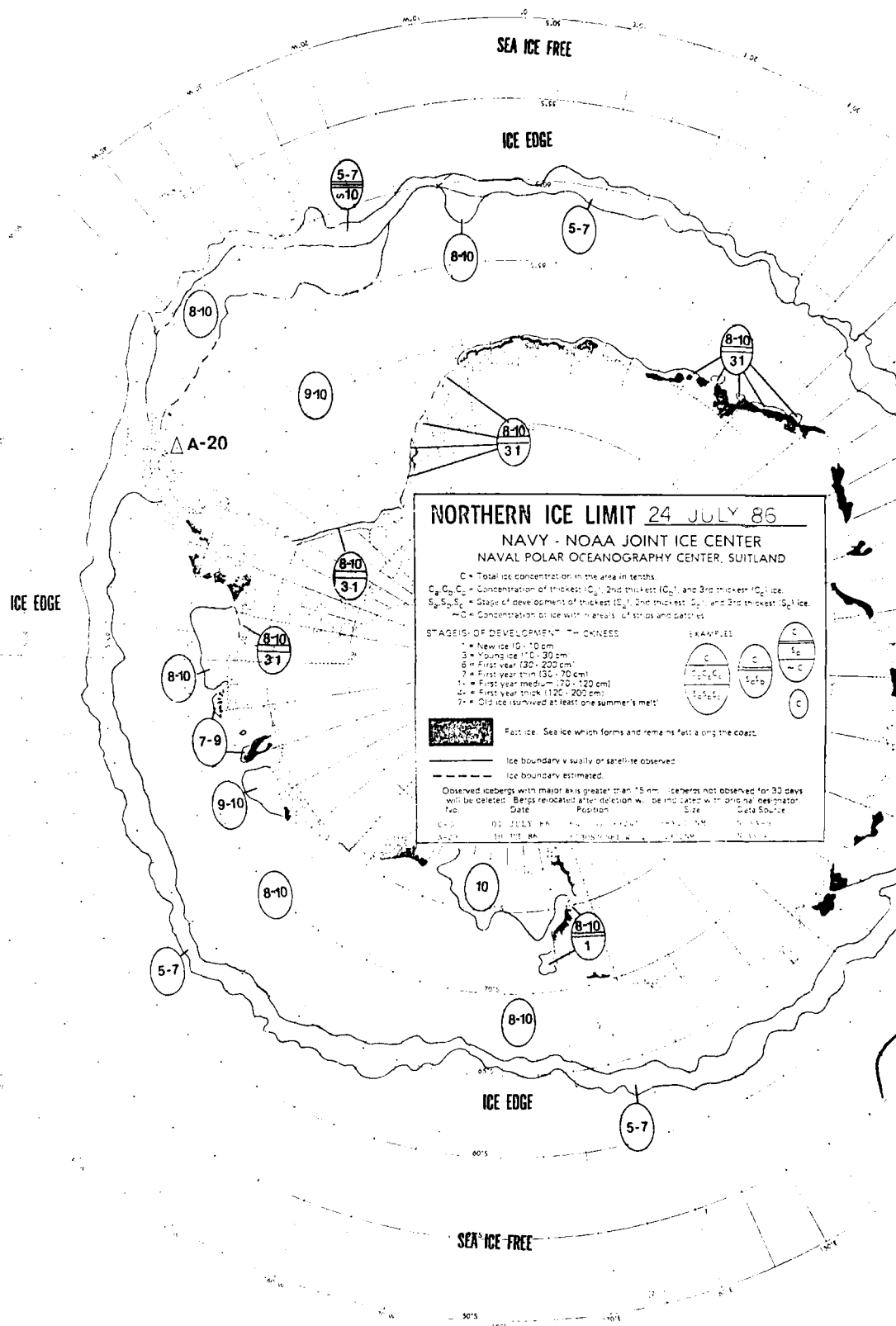
Ice boundary visually or satellite observed.

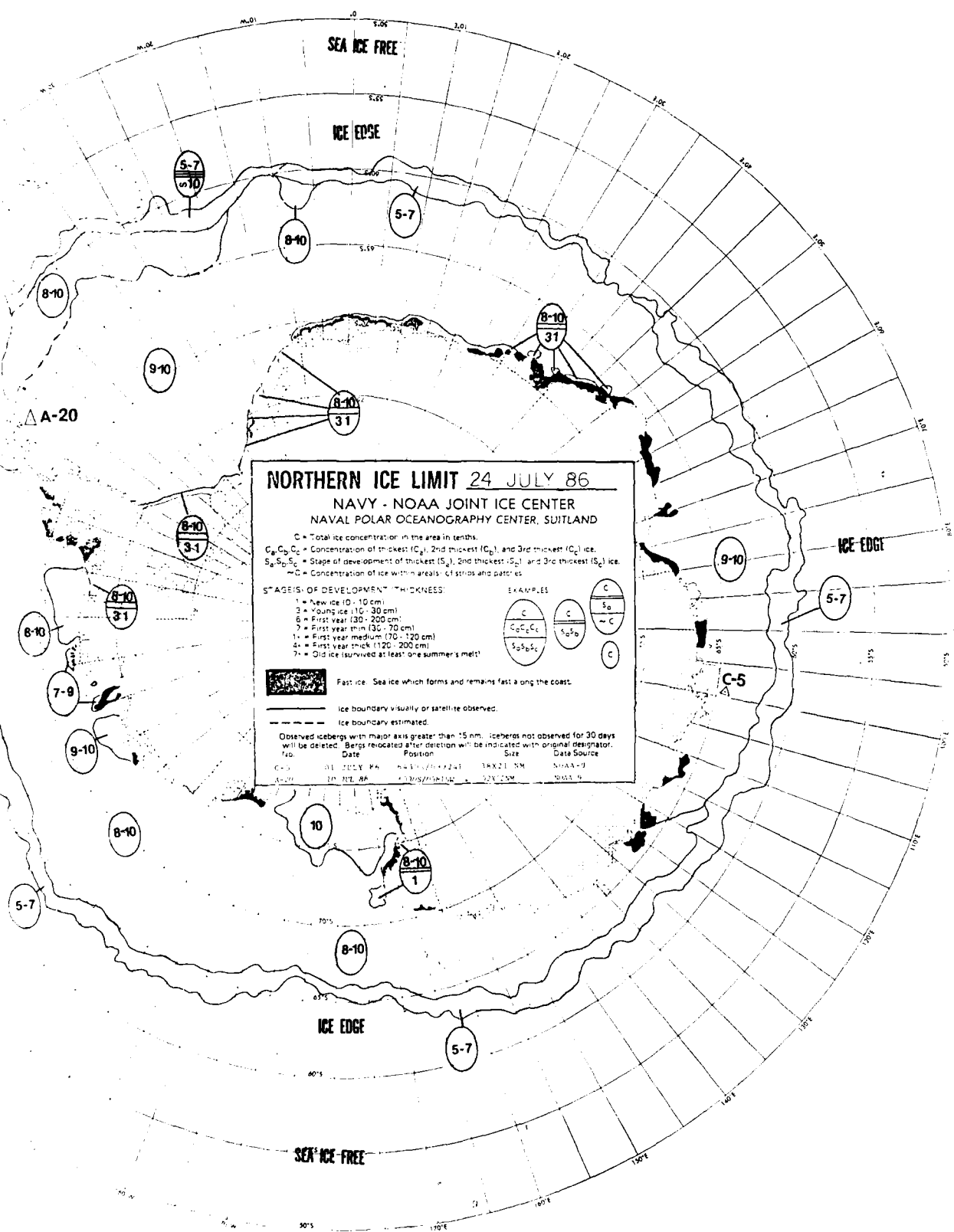
Ice boundary estimated.

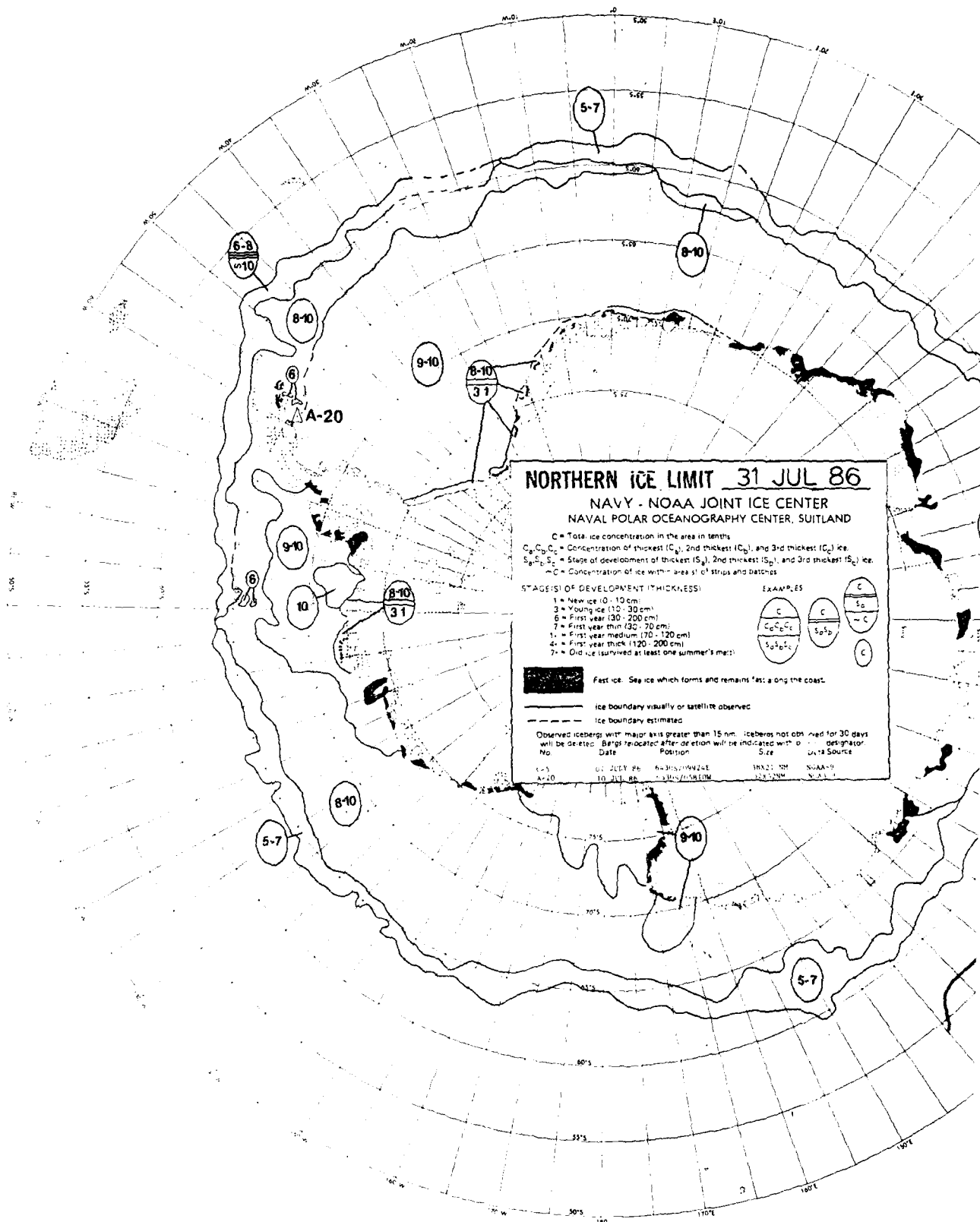
Observed icebergs with major axis greater than 15 nm. icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

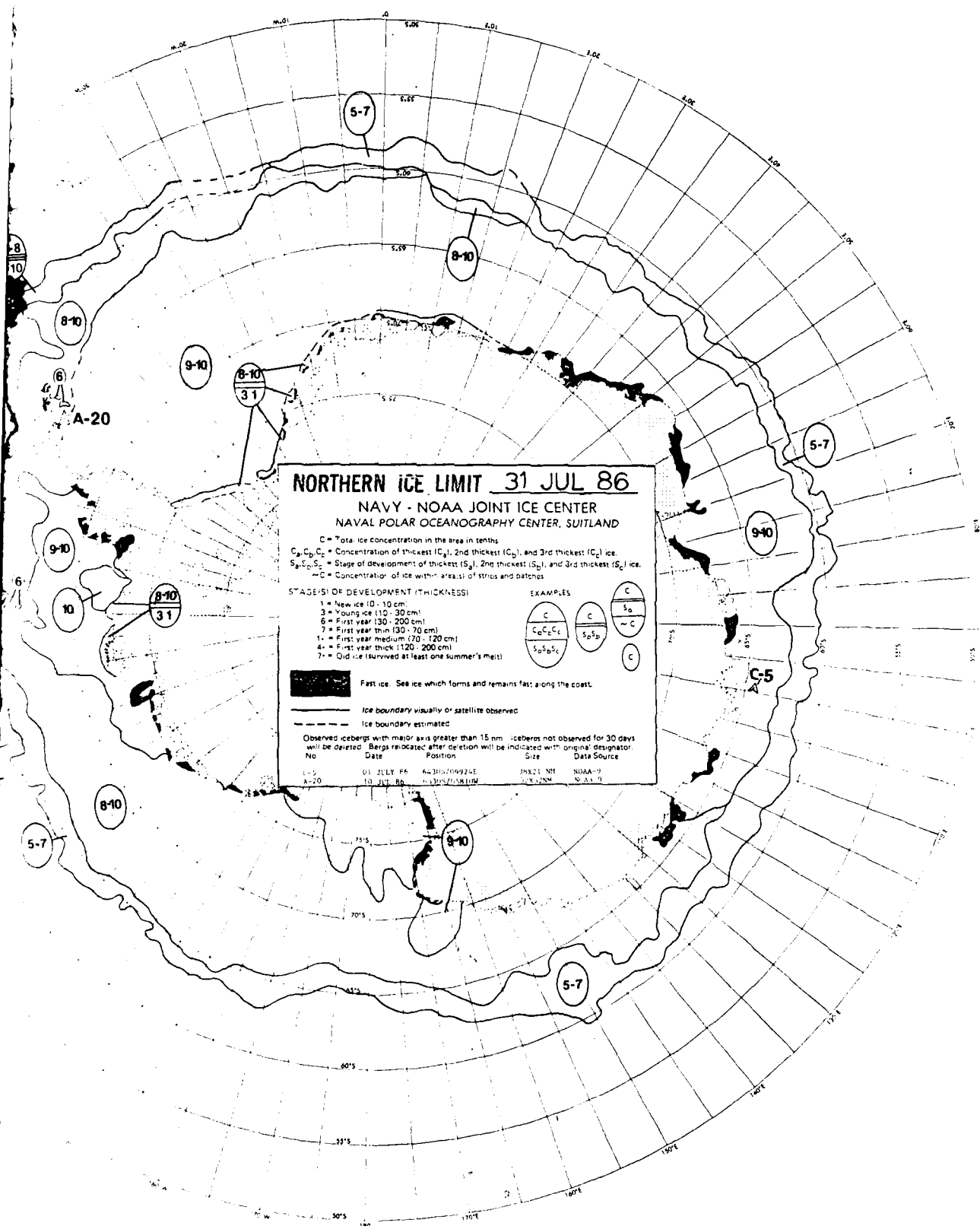
No.	Date	Position	Size	Data Source
C-5	11 JULY 86	6430S/09924E	38X21 NM	NI-AA-9
A-20	10 JUL 86	7530S/05810W	52X52 NM	NI-AA-4

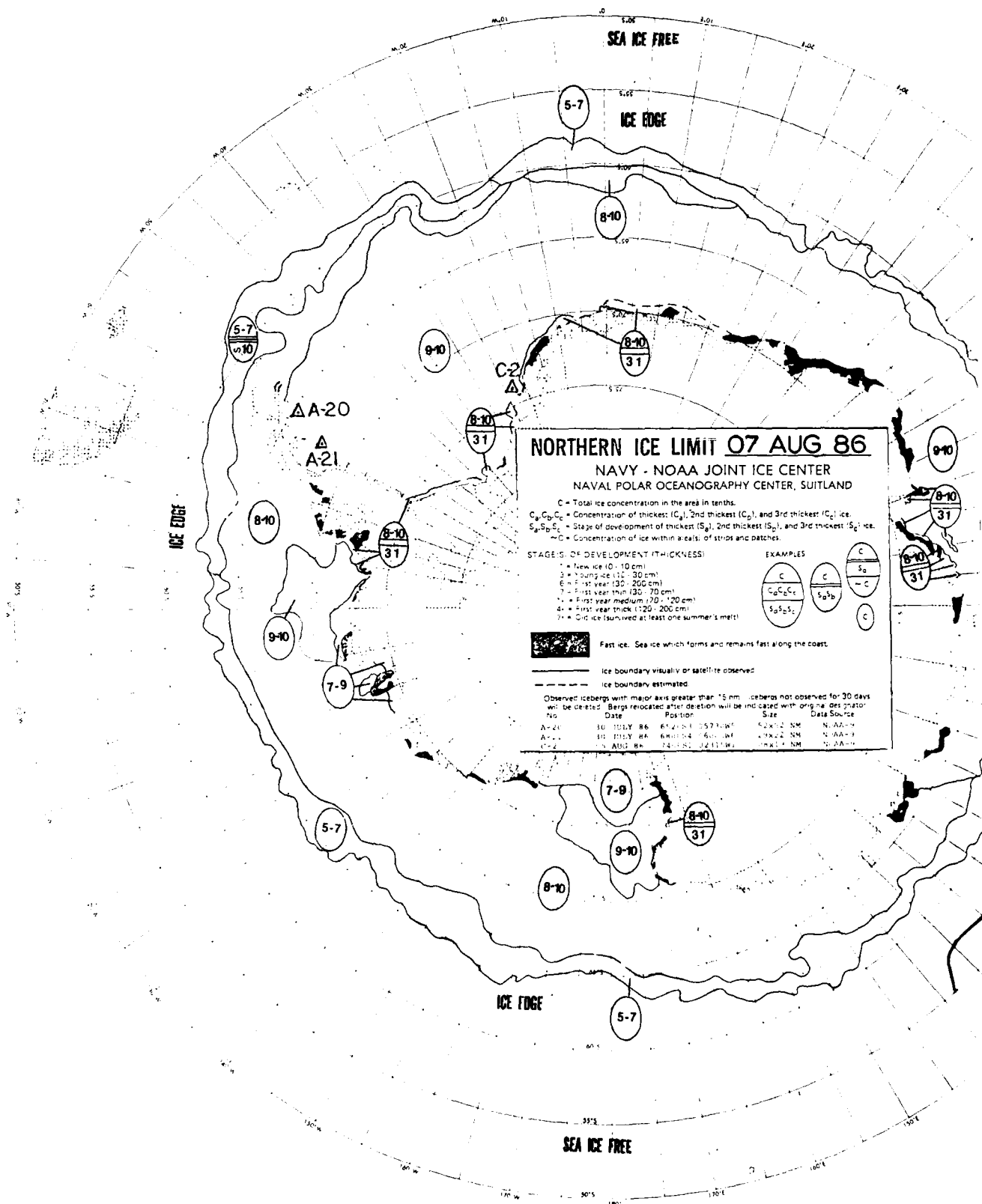


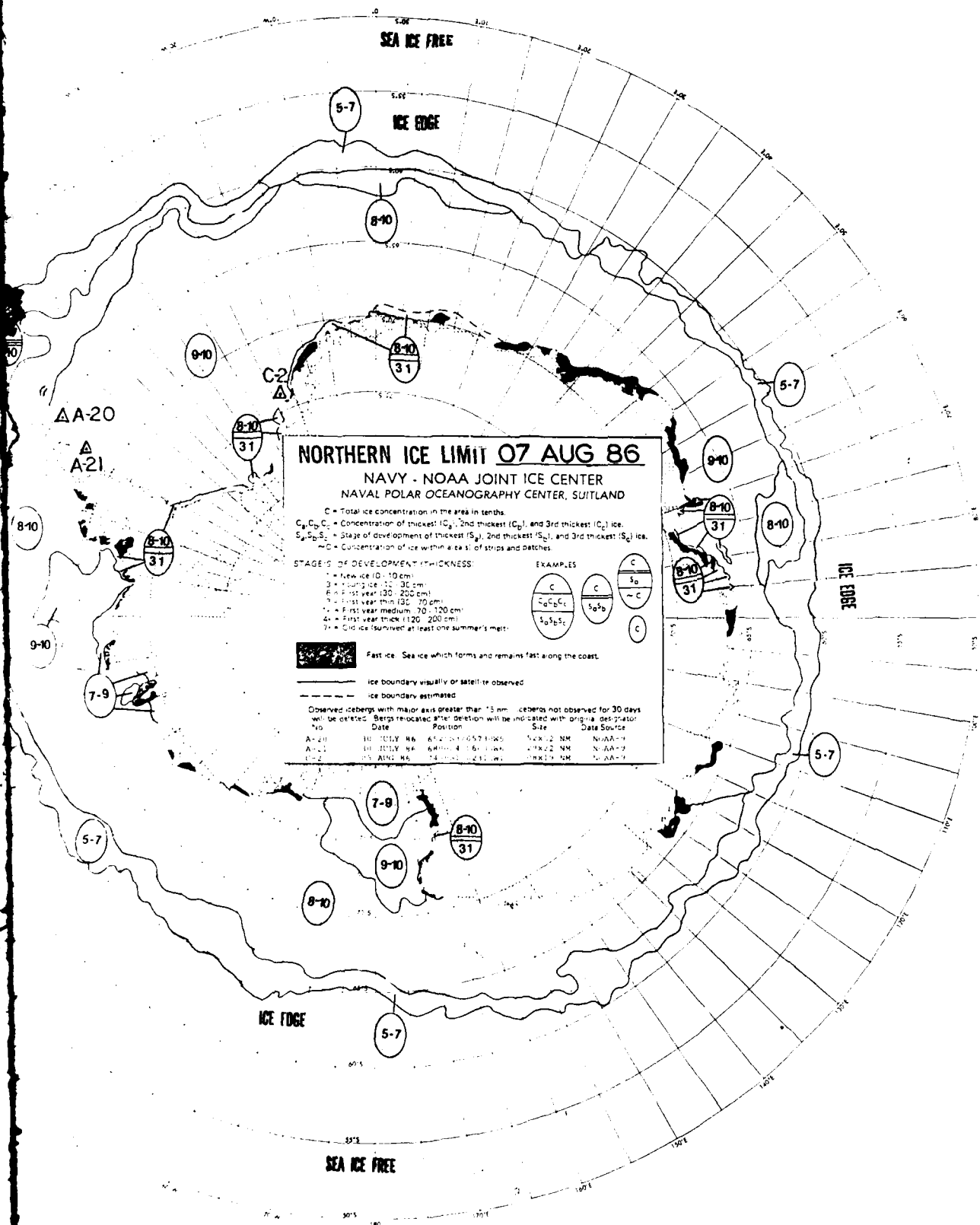


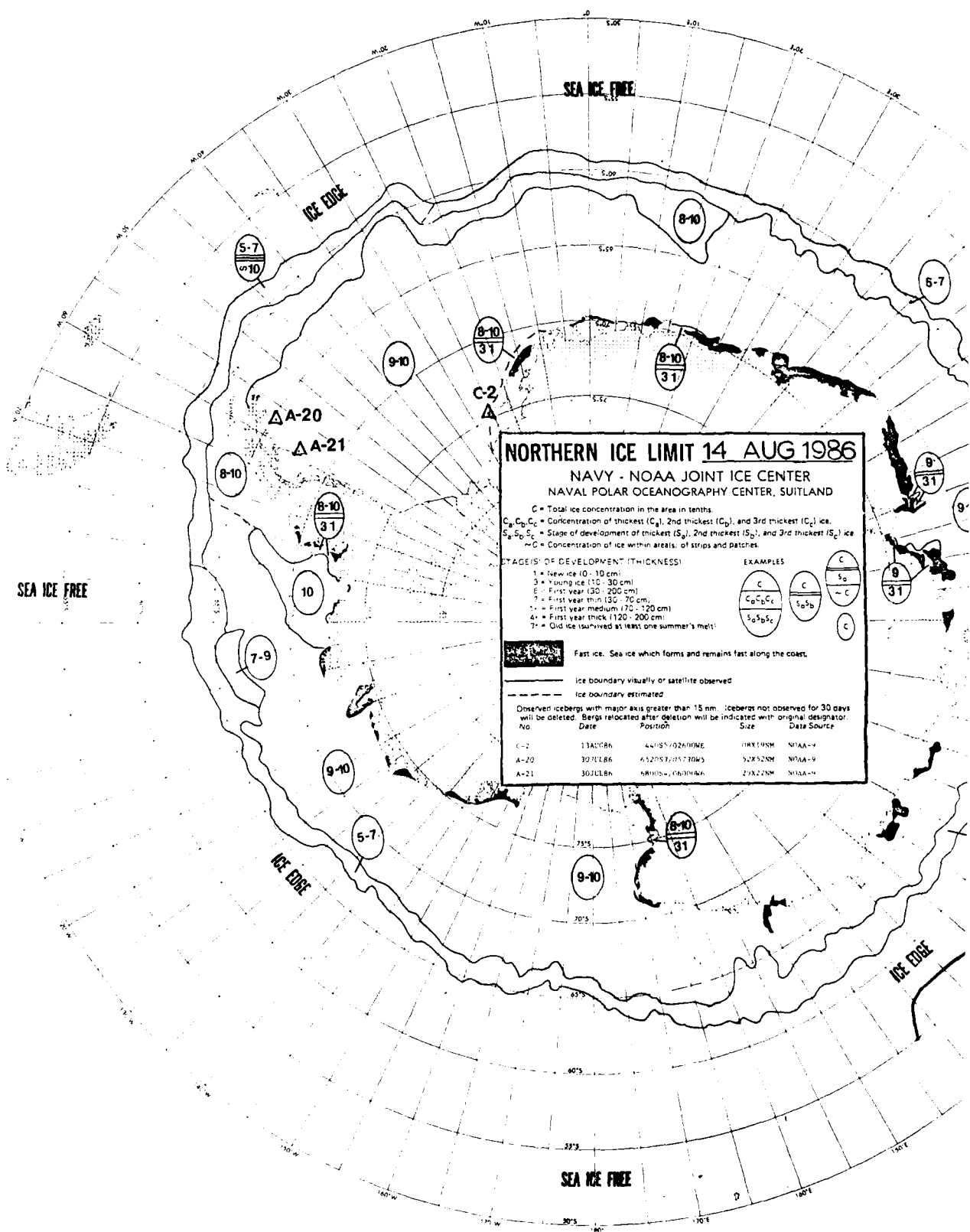


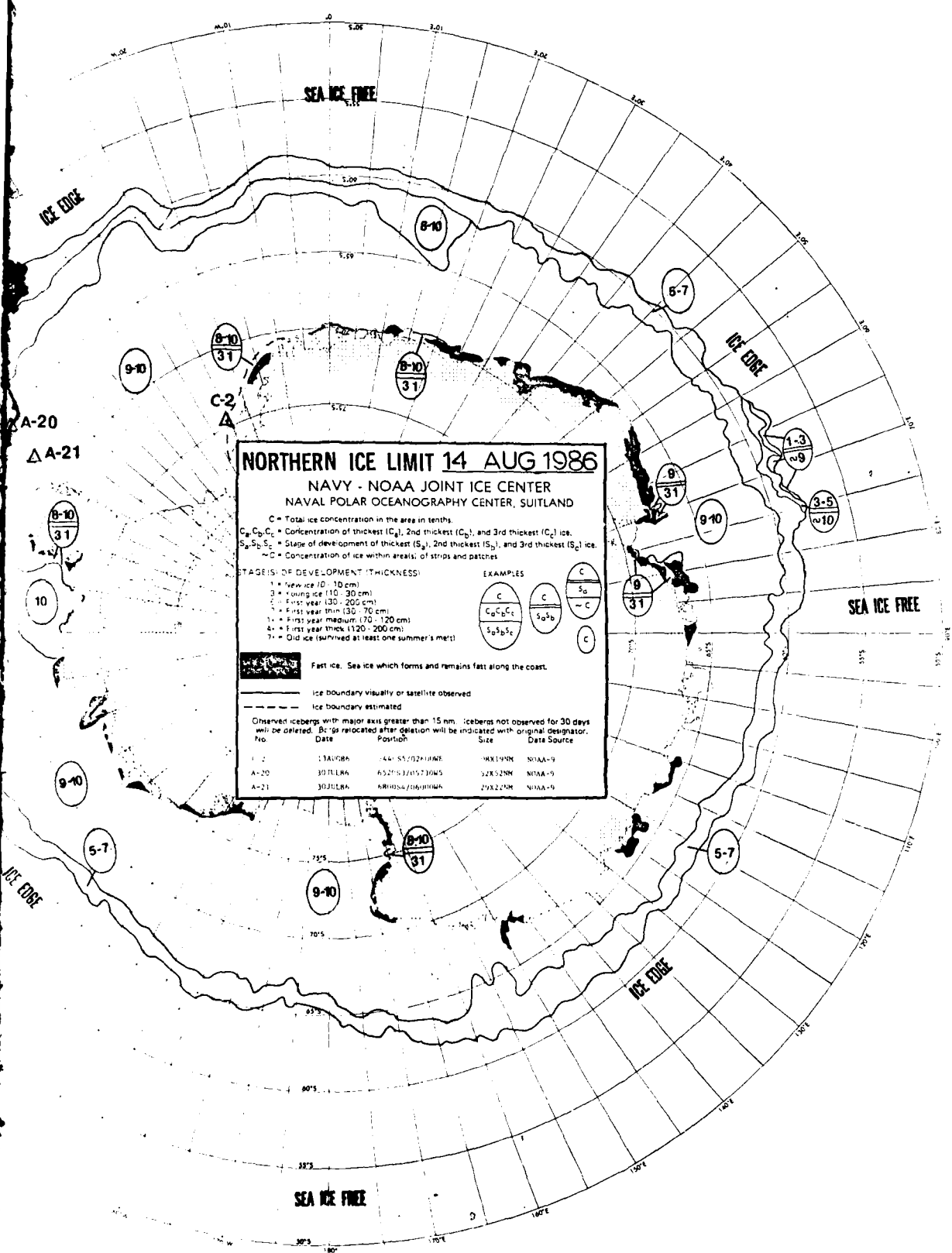








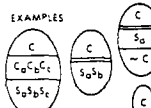




NORTHERN ICE LIMIT 14 AUG 1986

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

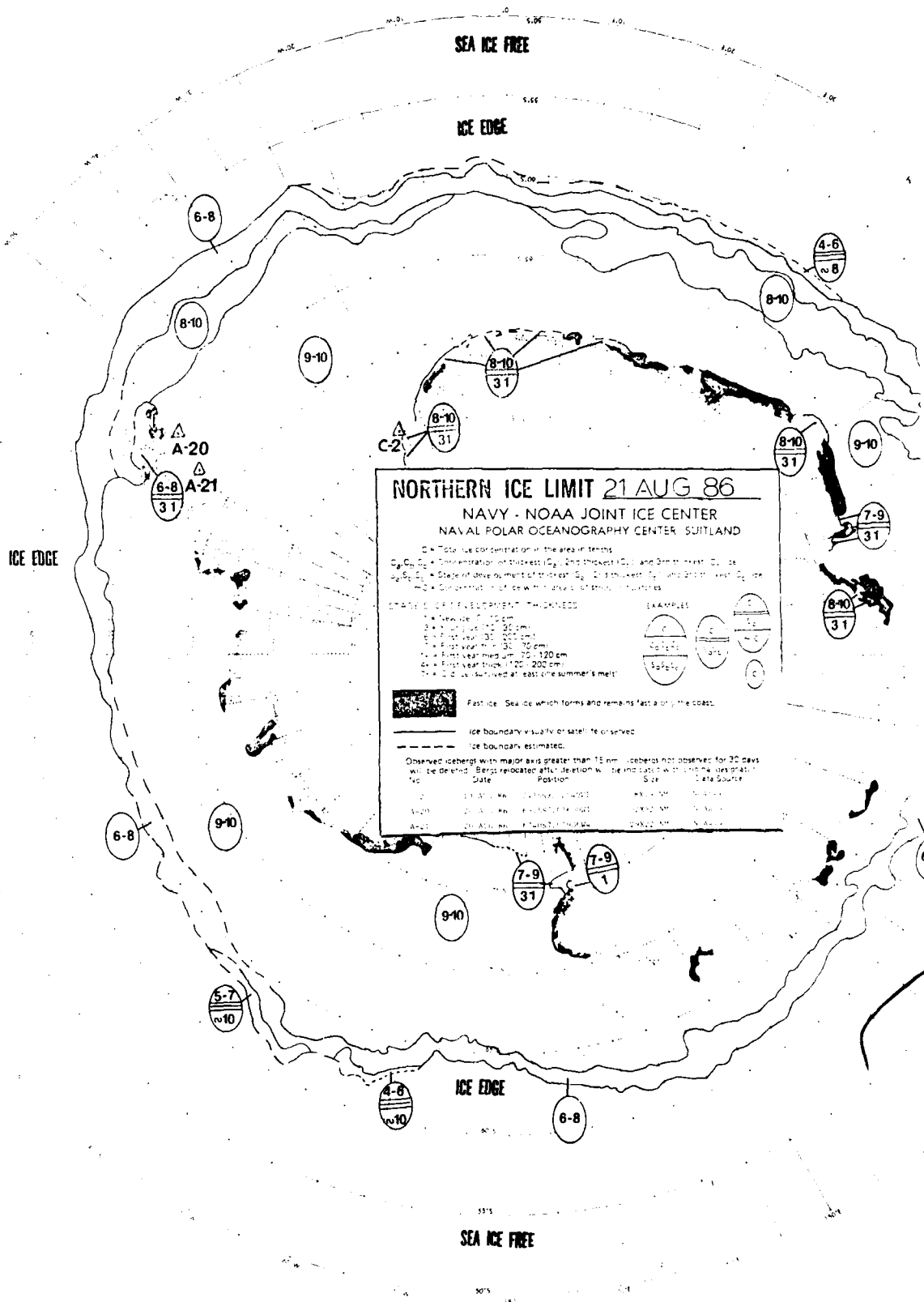
- C = Total ice concentration in the area in tenths.
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice.
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 ~C = Concentration of ice within areas, of strips and patches.
- STAGES OF DEVELOPMENT (THICKNESS):
 1 = New ice (10 - 10 cm)
 2 = Young ice (10 - 30 cm)
 3 = First year (30 - 200 cm)
 4 = First year thin (30 - 70 cm)
 5 = First year medium (70 - 120 cm)
 6 = First year thick (120 - 200 cm)
 7 = Old ice (survived at least one summer's melt)

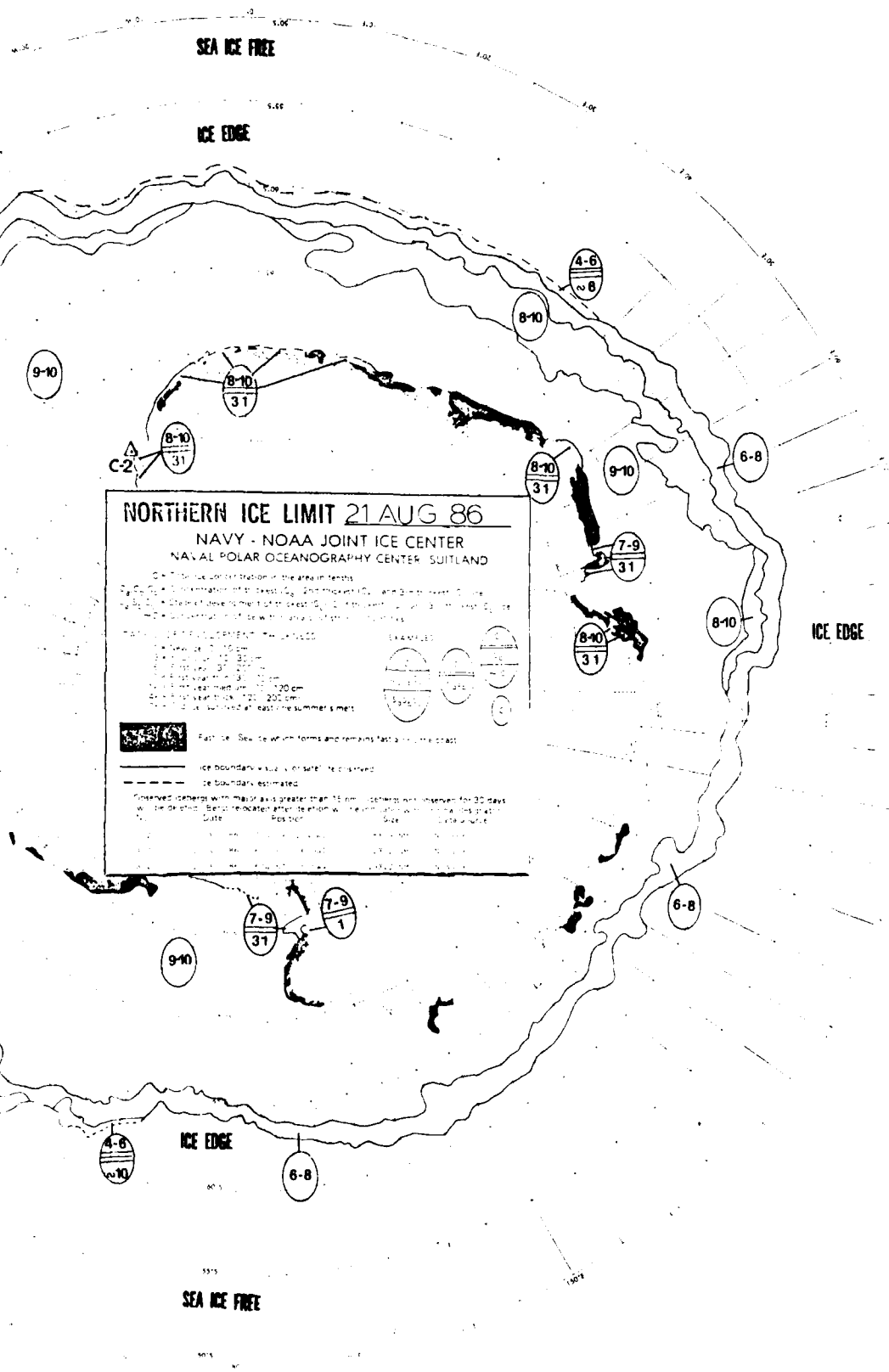


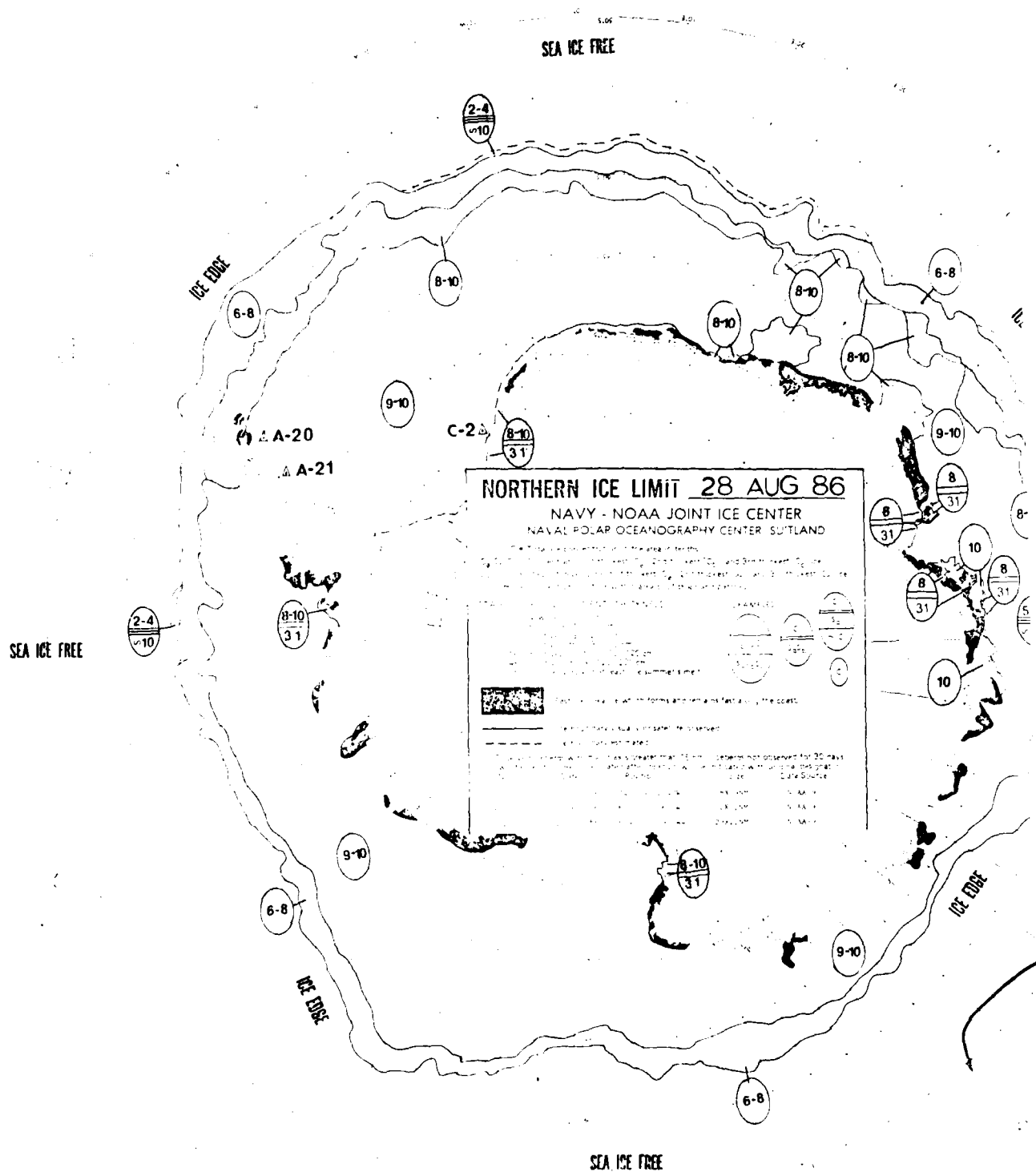
Fast ice. Sea ice which forms and remains fast along the coast.
 --- ice boundary visually or satellite observed
 - - - - - ice boundary estimated

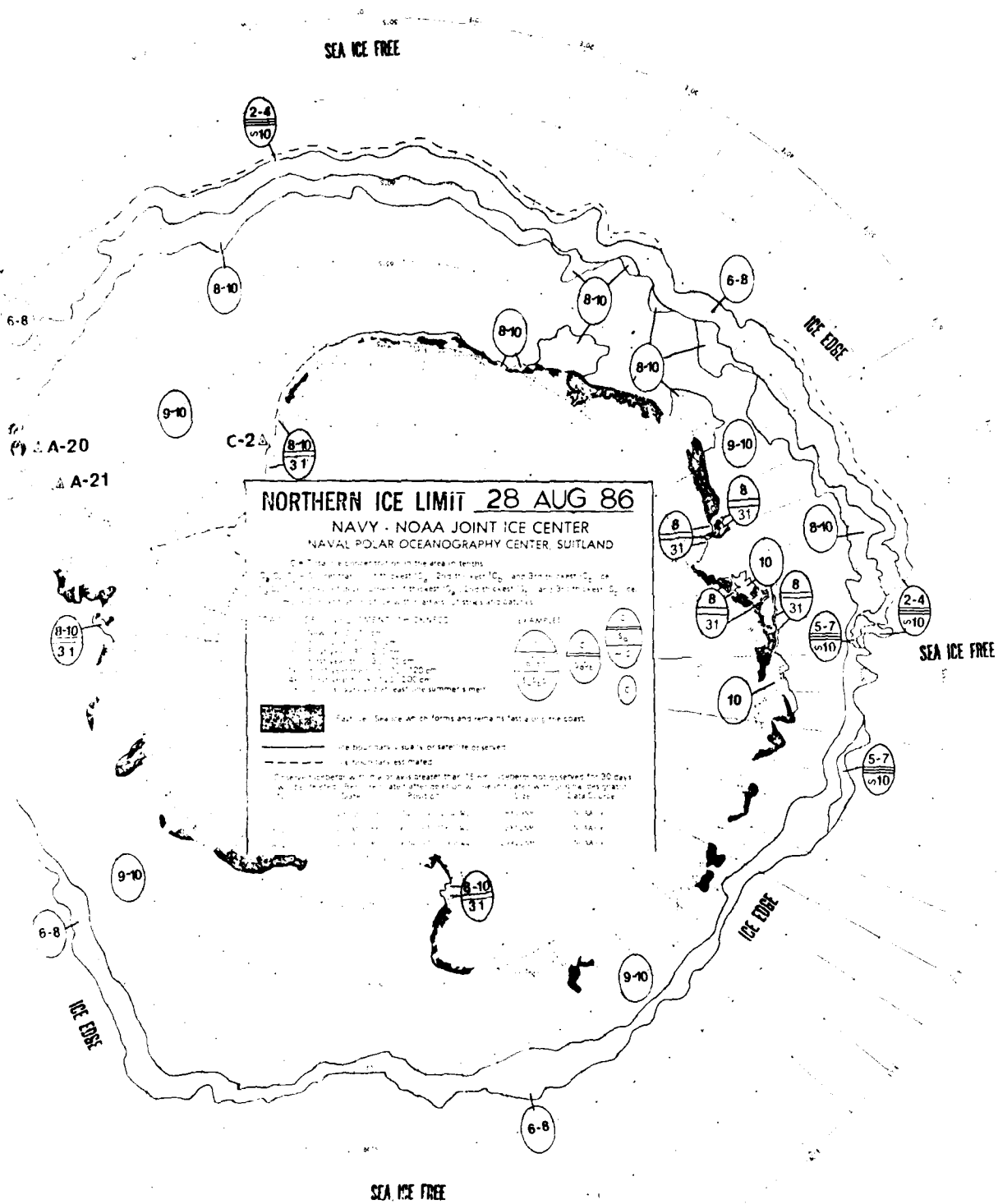
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Bergs relocated after deletion will be indicated with original designator.

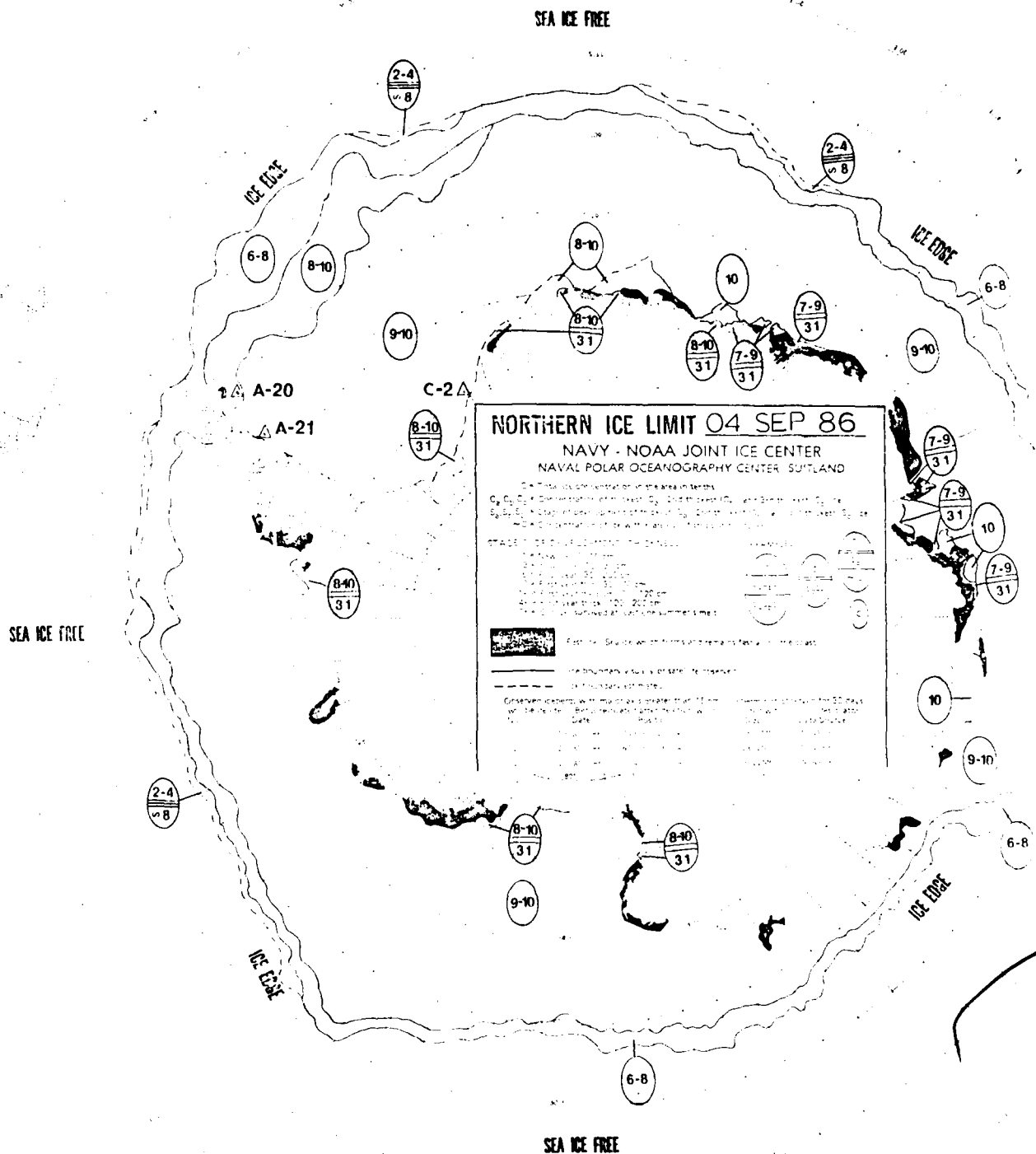
No.	Date	Position	Size	Data Source
1-2	11 AUG 86	64° 55' 02" N 160° 00' 00" E	10X13 NM	NOAA-9
A-20	10 JUL 86	65° 21' 53" N 157° 10' 00" E	12X52 NM	NOAA-9
A-21	10 JUL 86	66° 03' 54" N 156° 00' 00" E	20X22 NM	NOAA-9

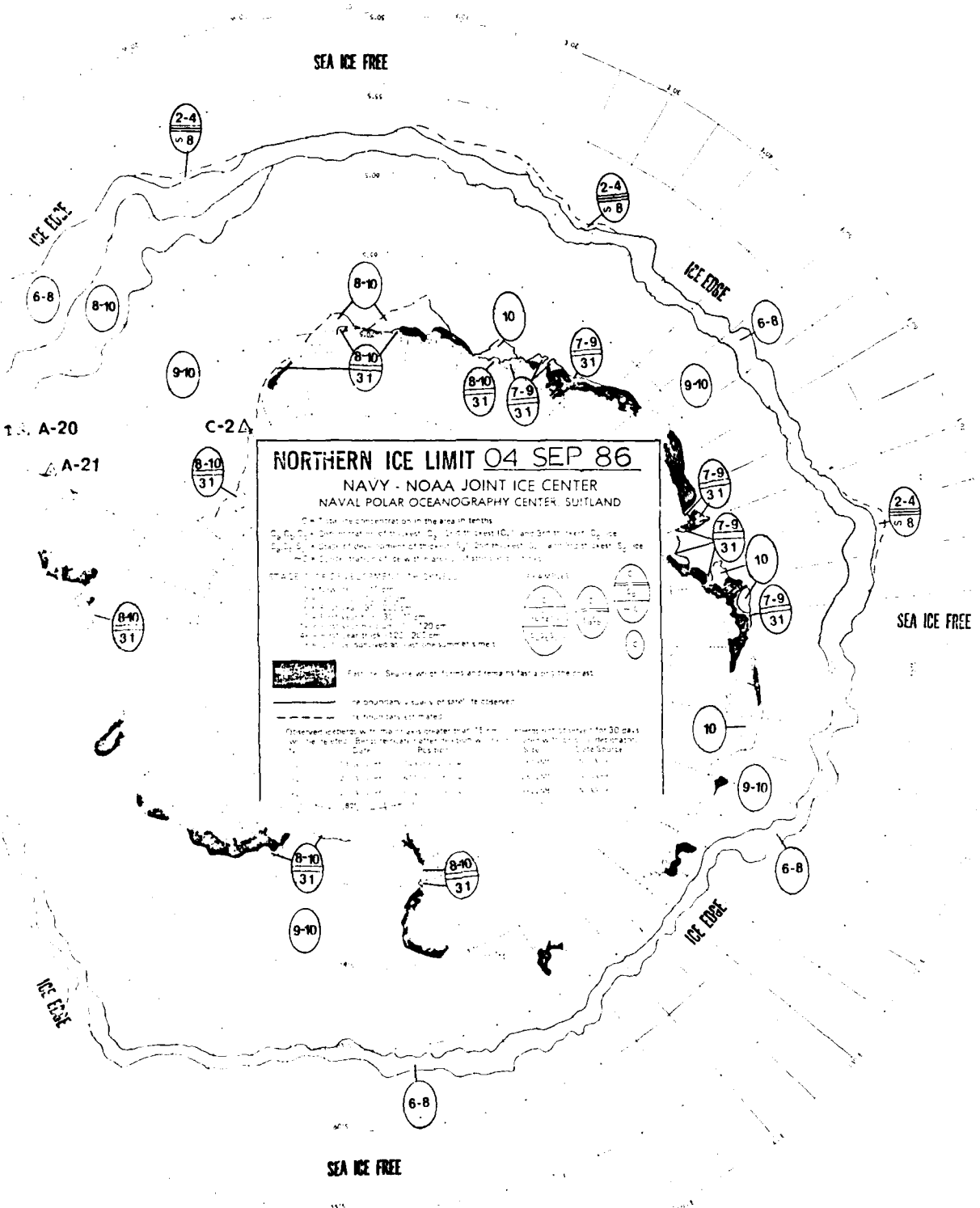




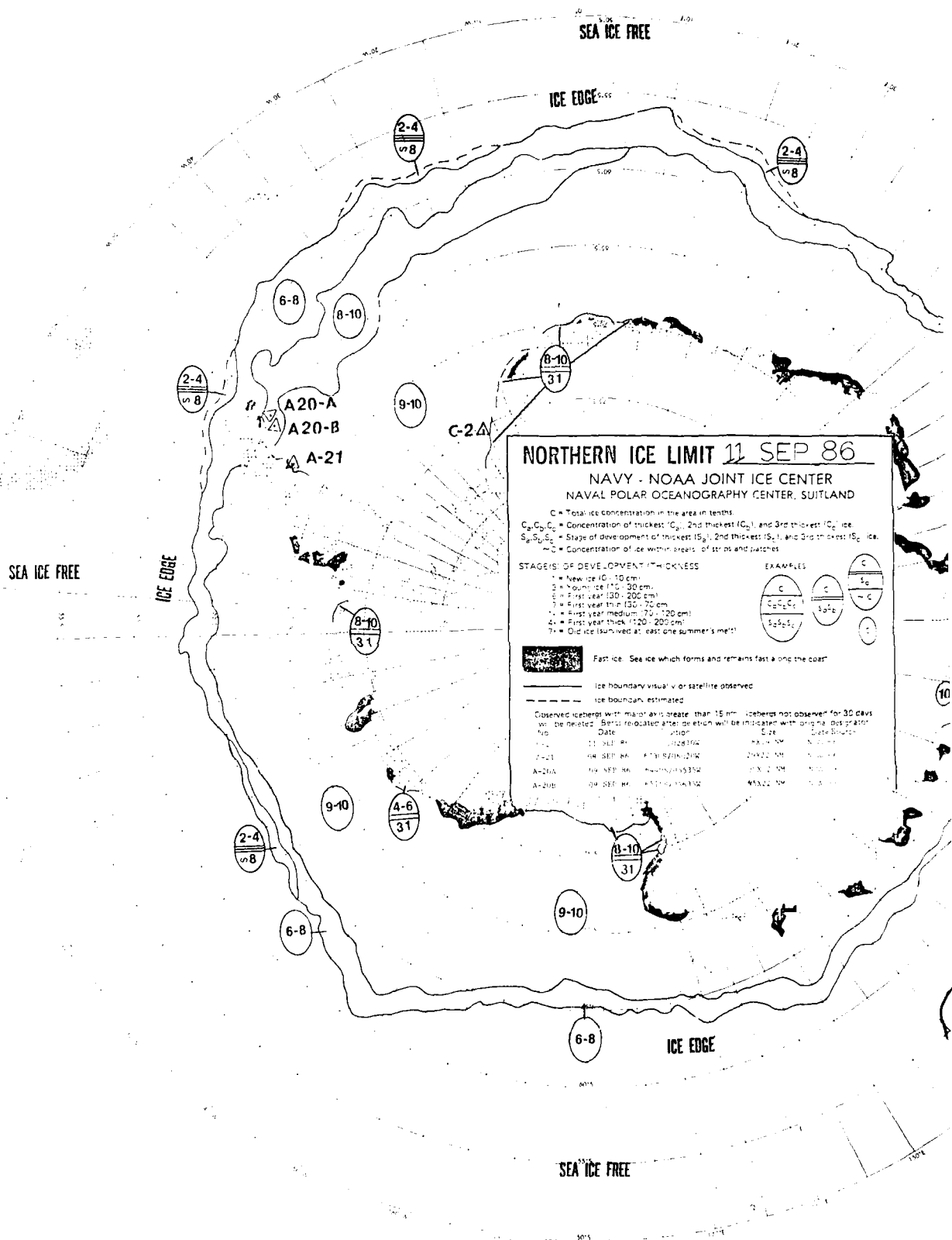


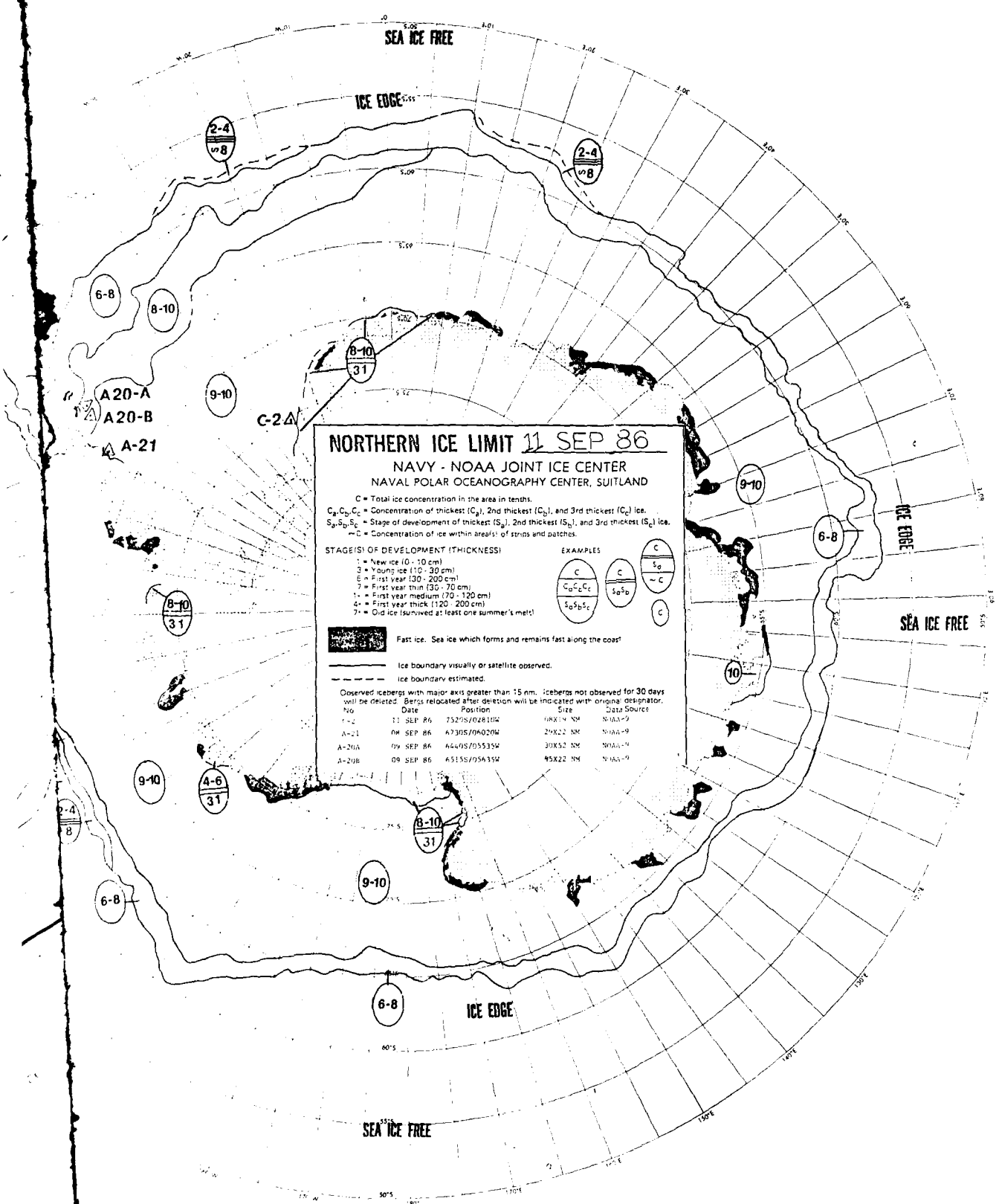


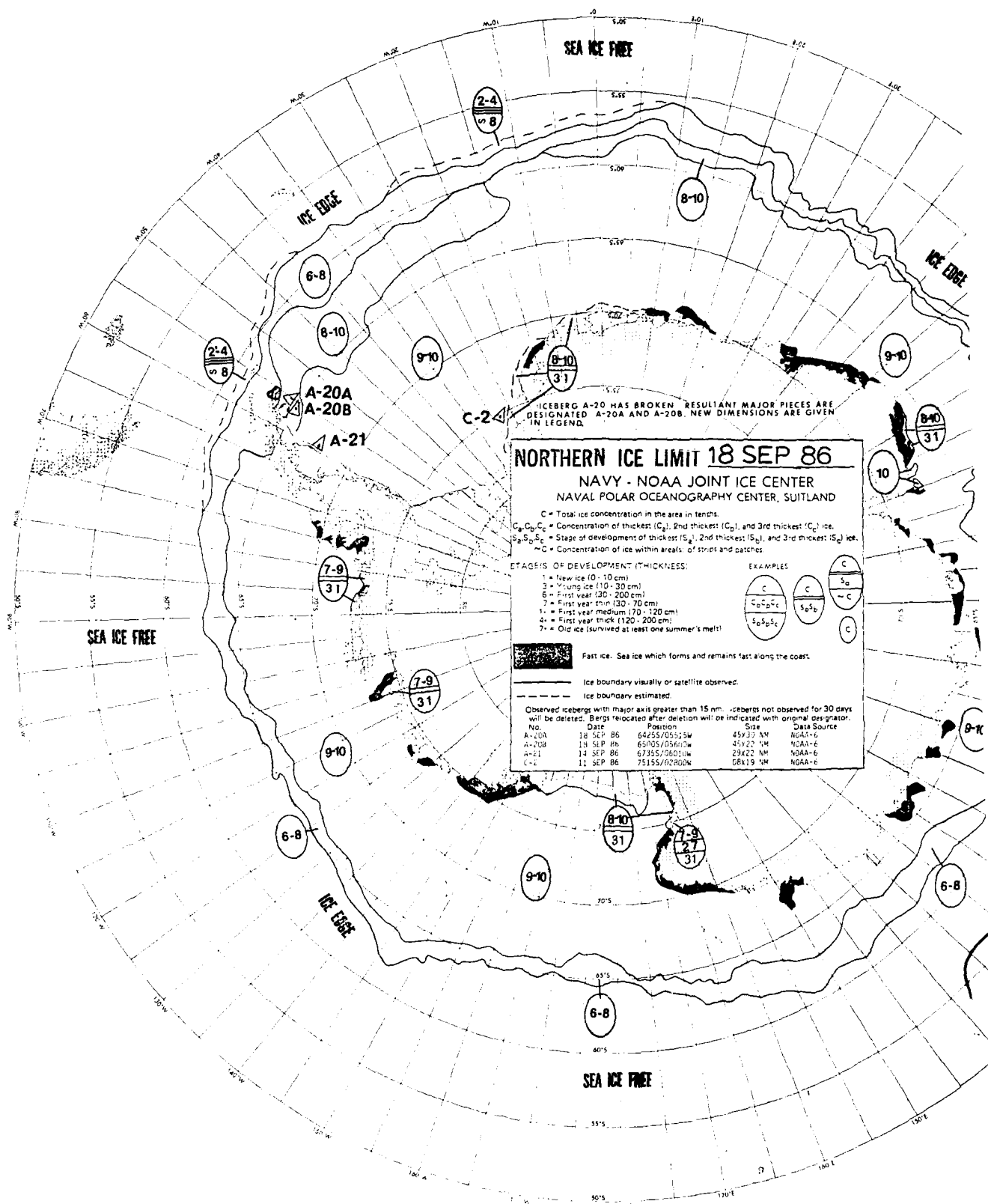


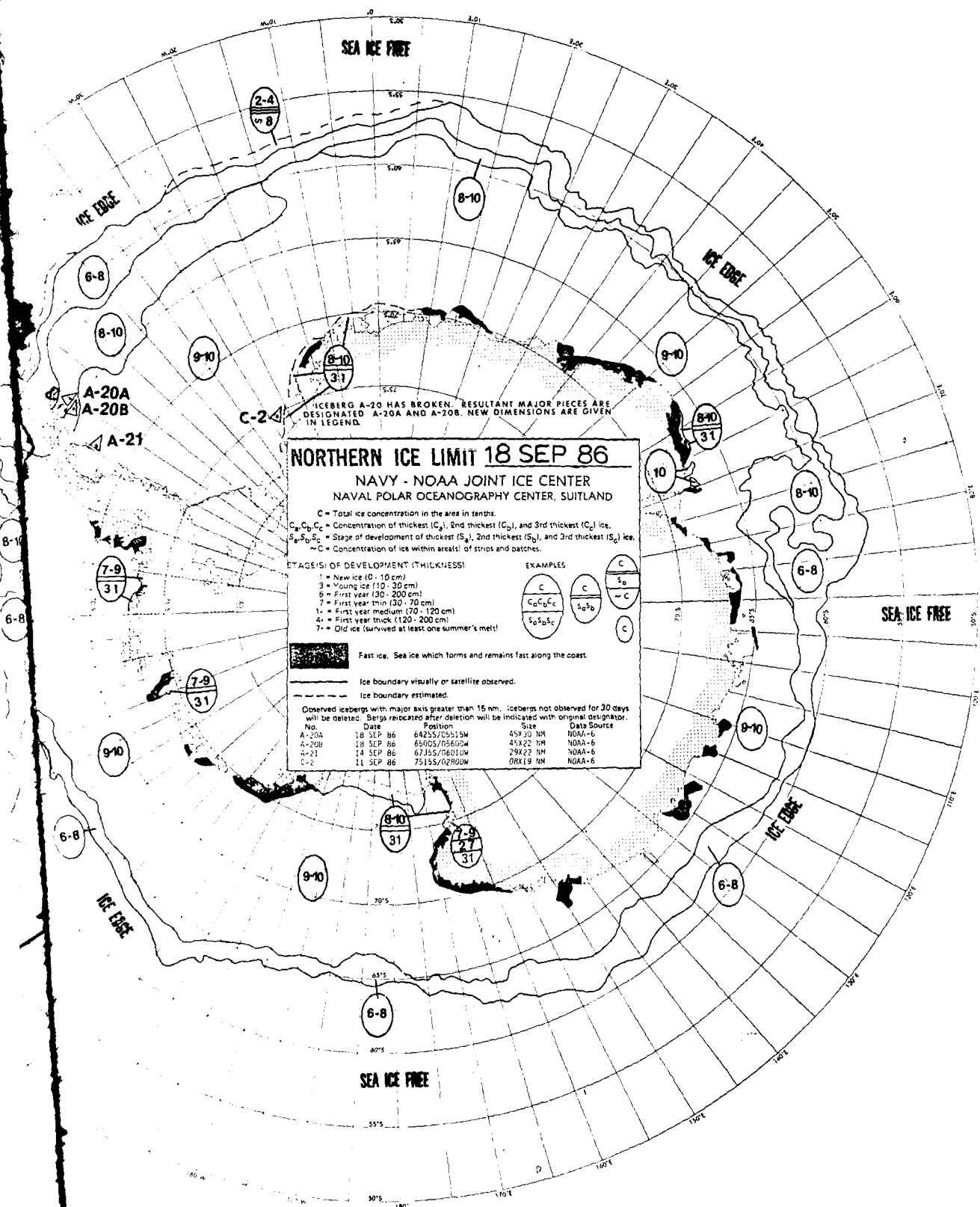


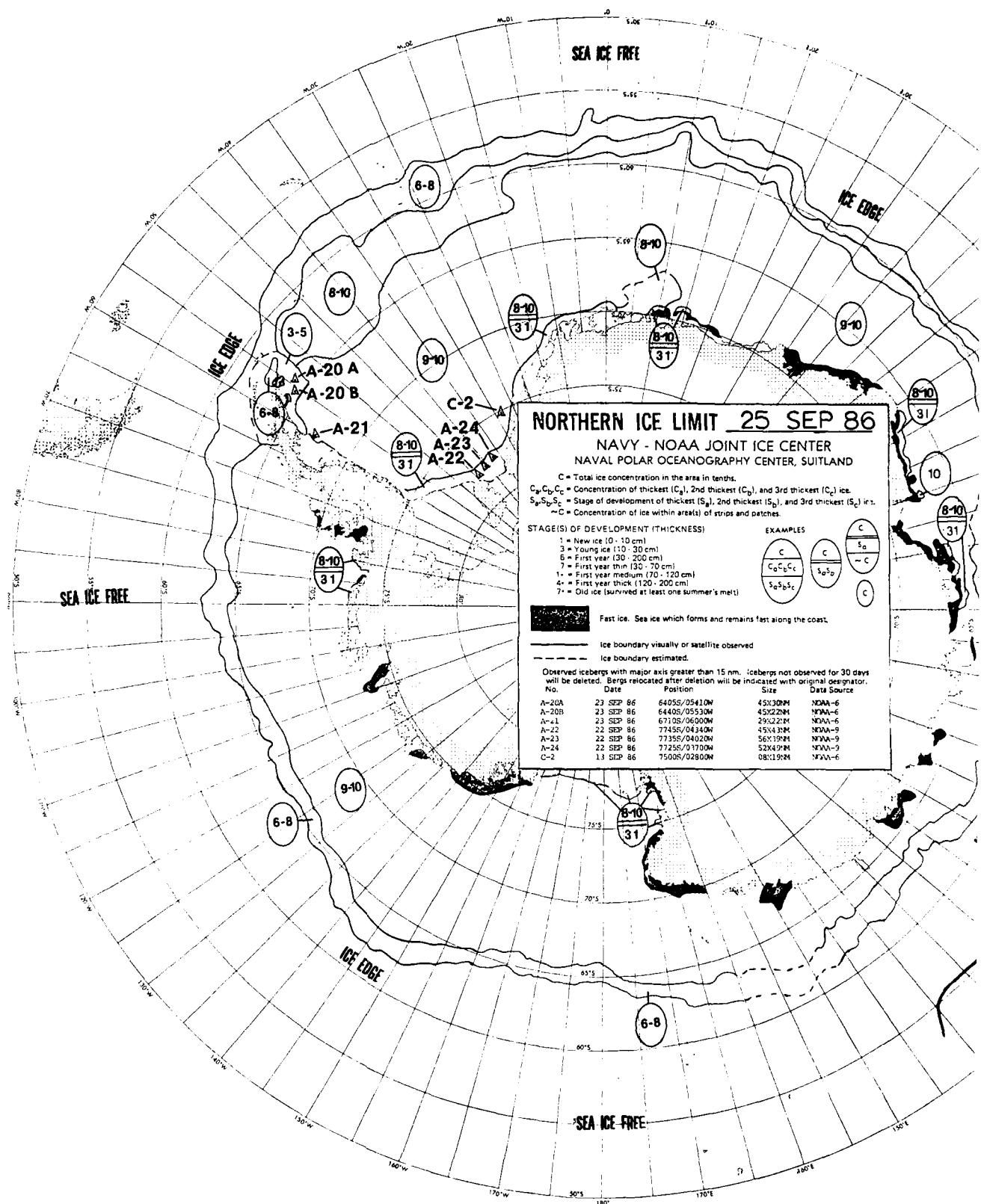
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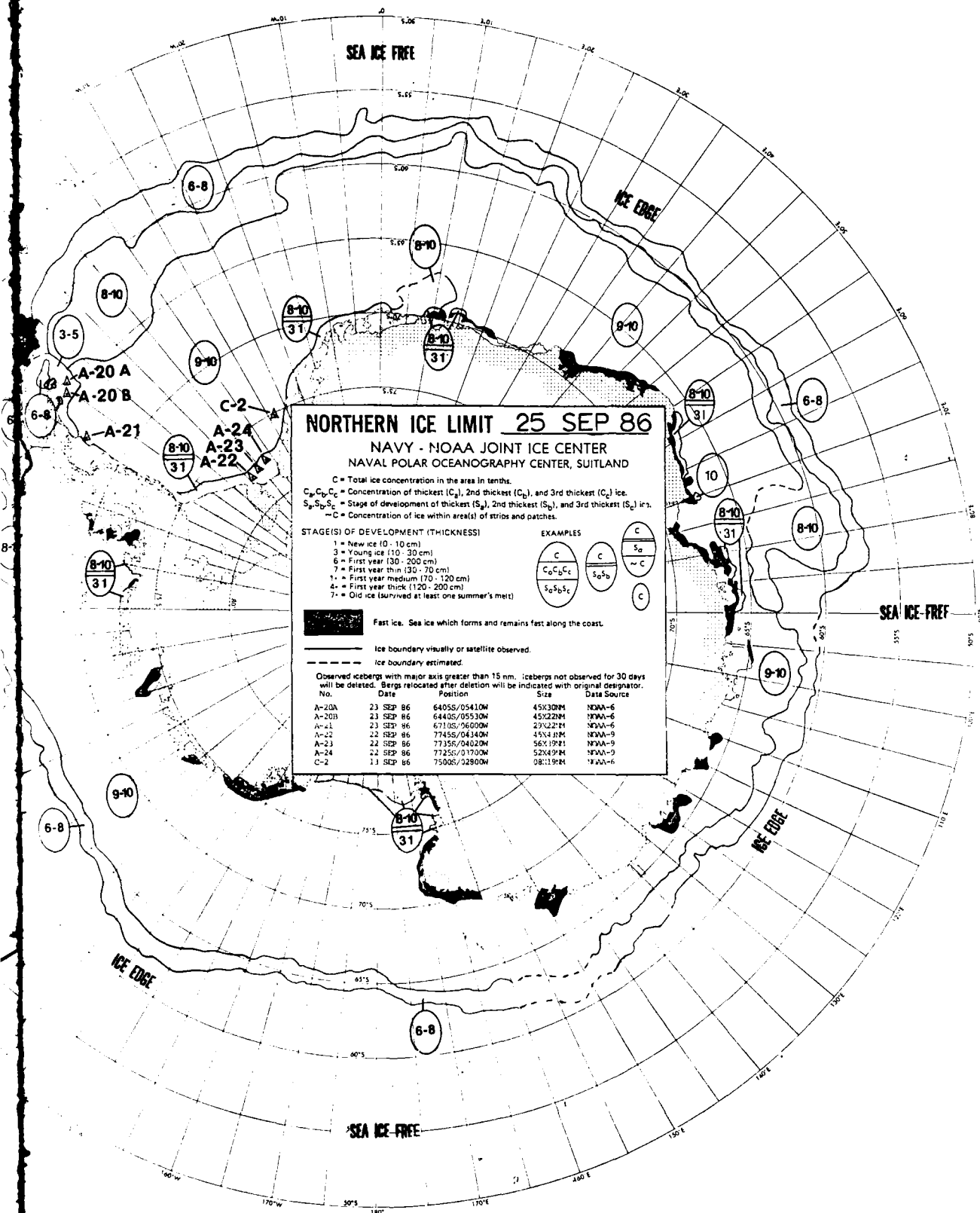


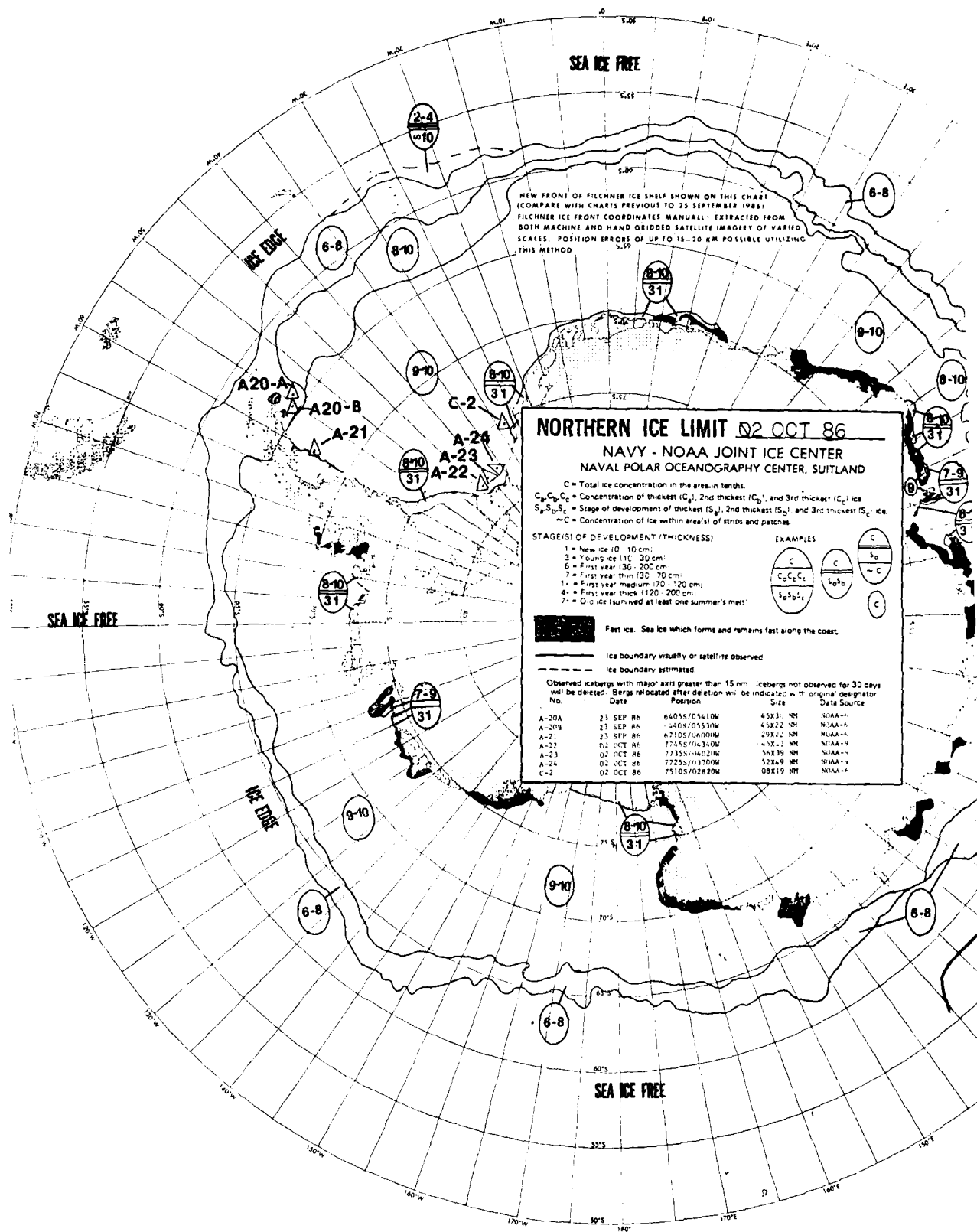


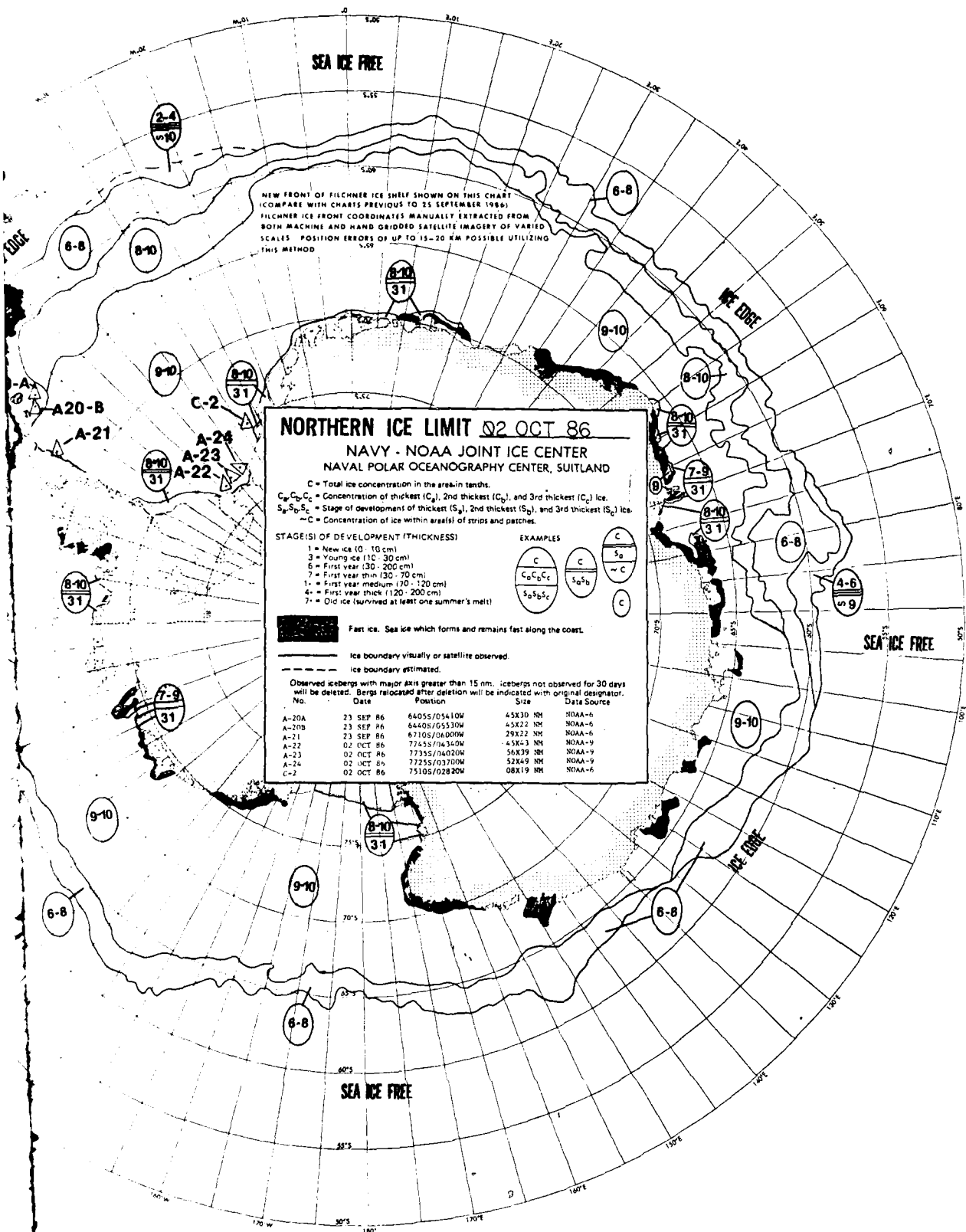


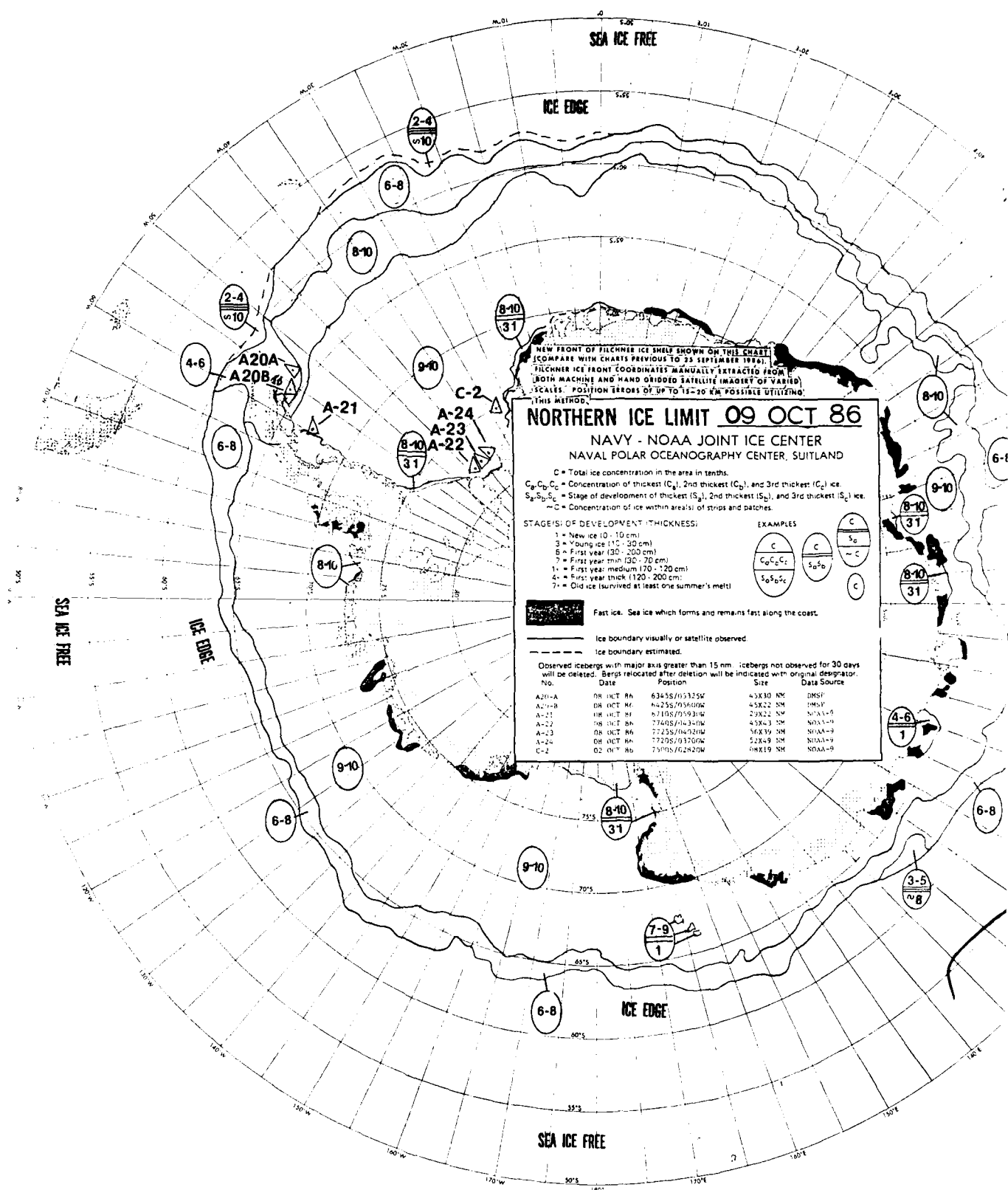


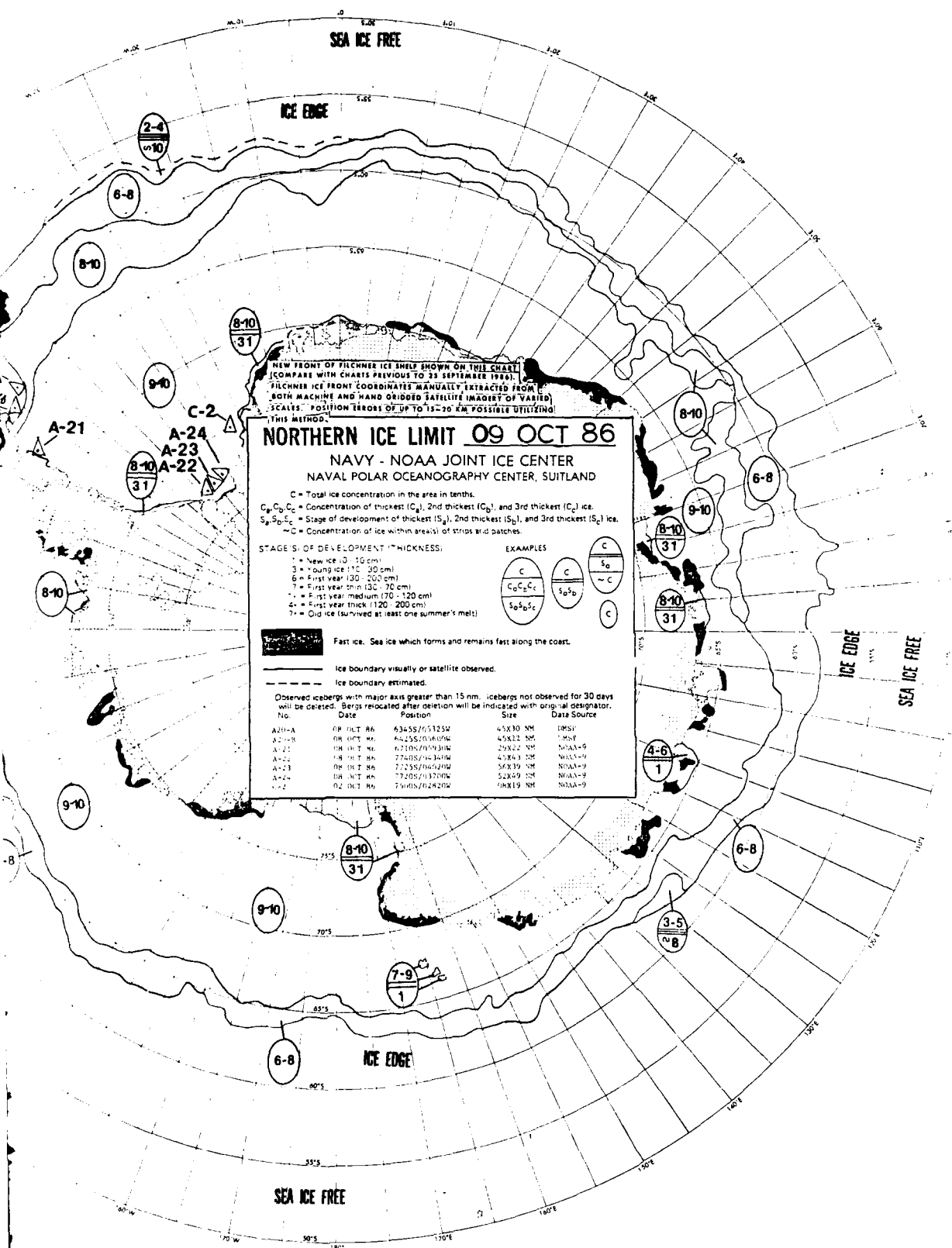


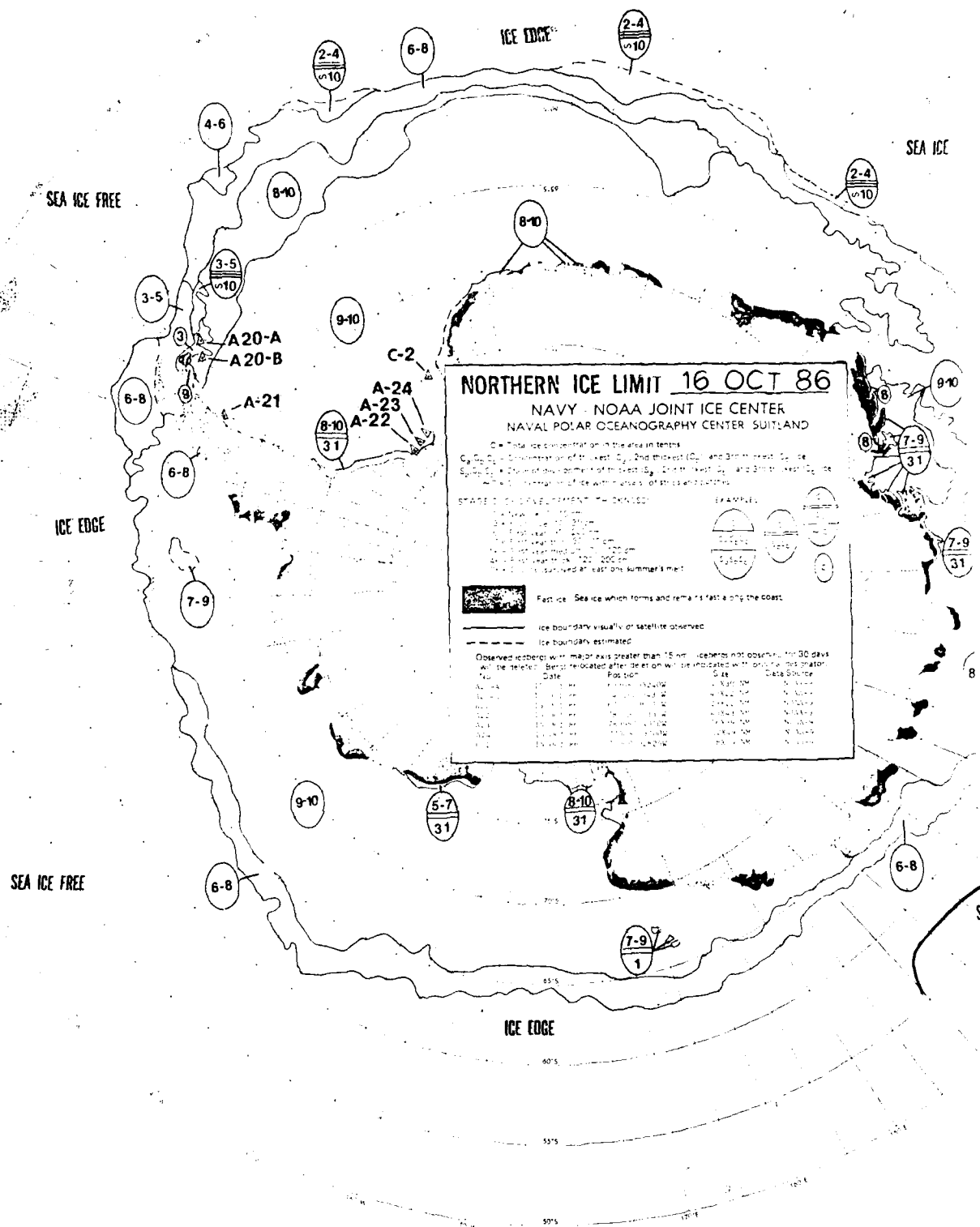


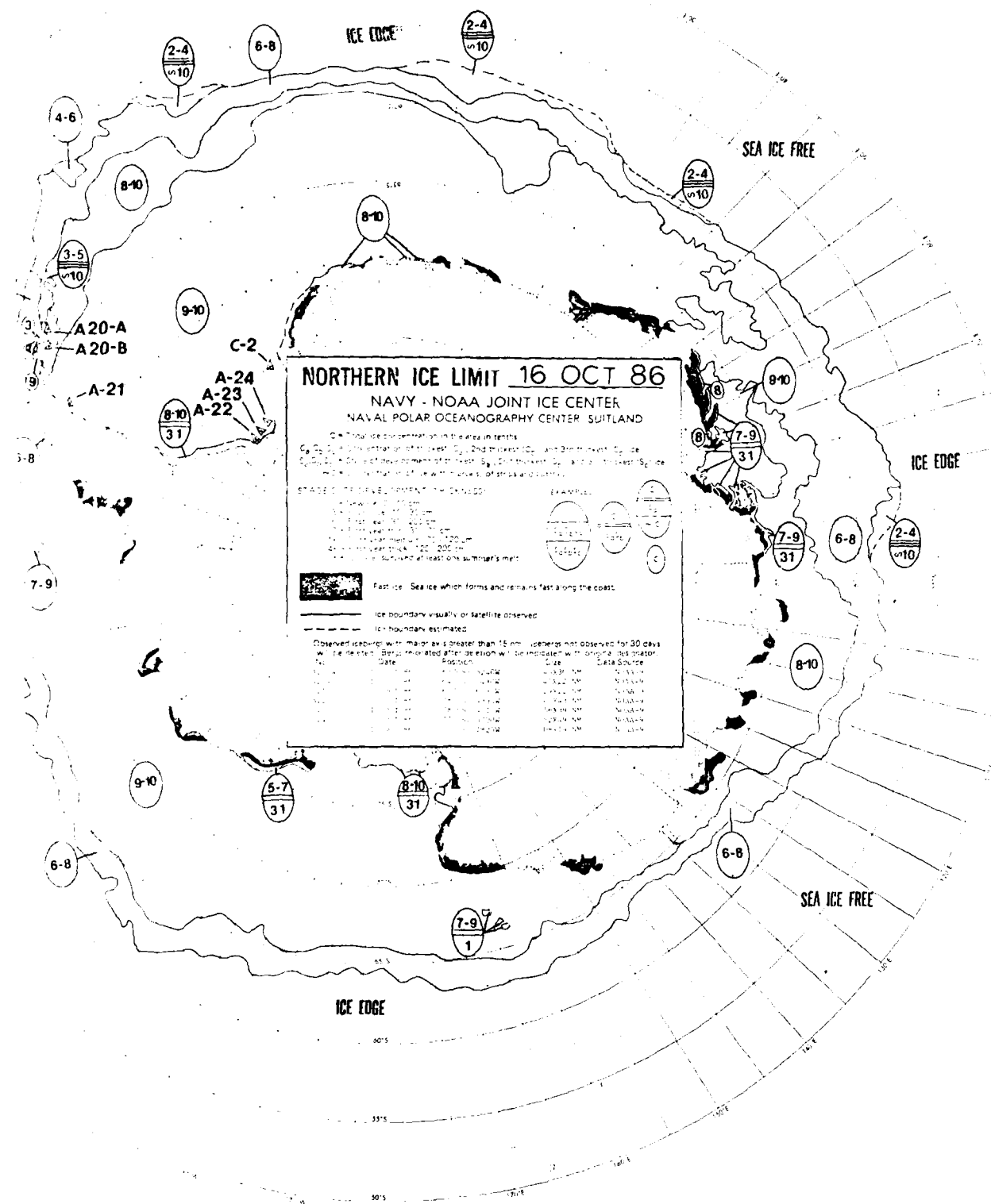


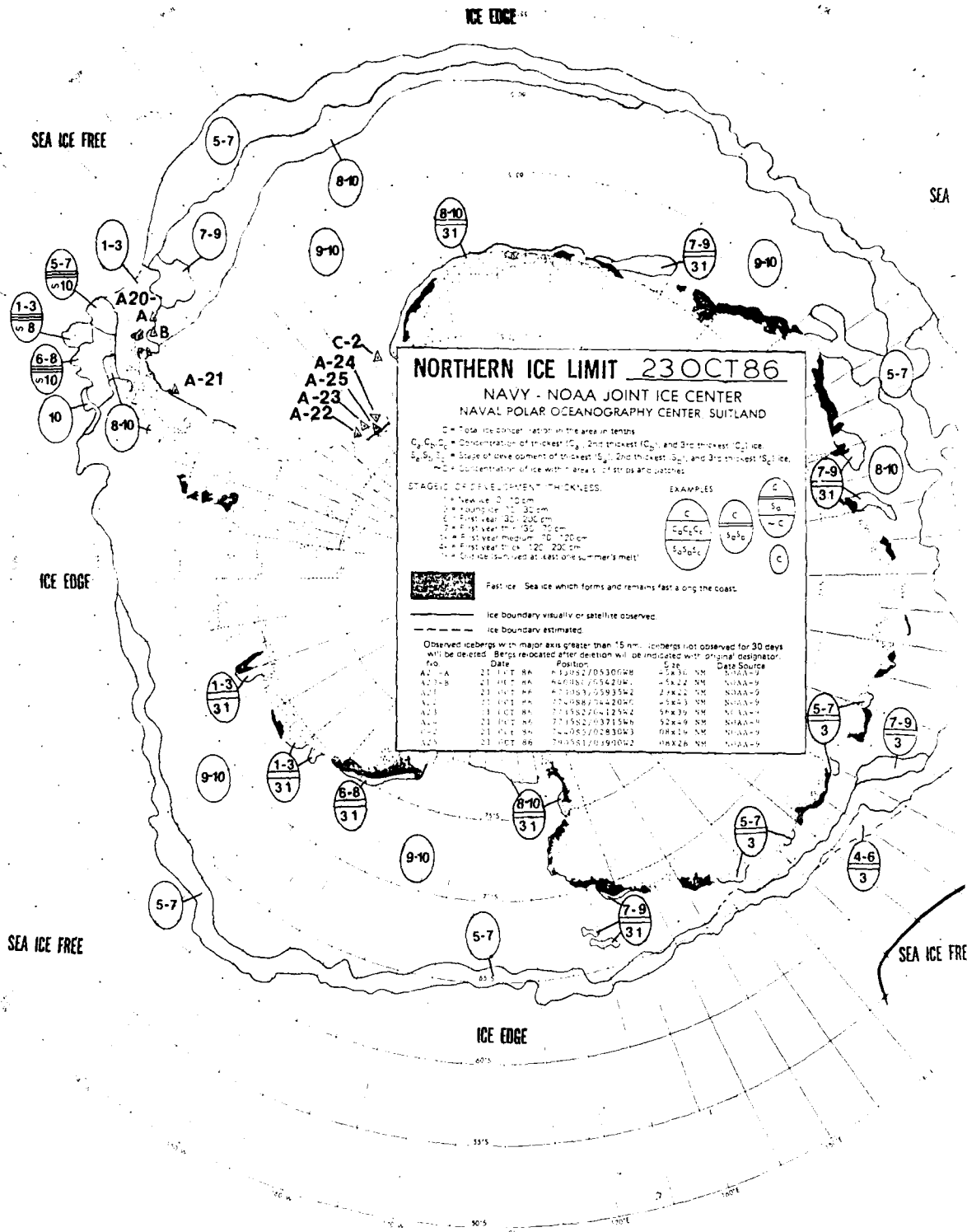


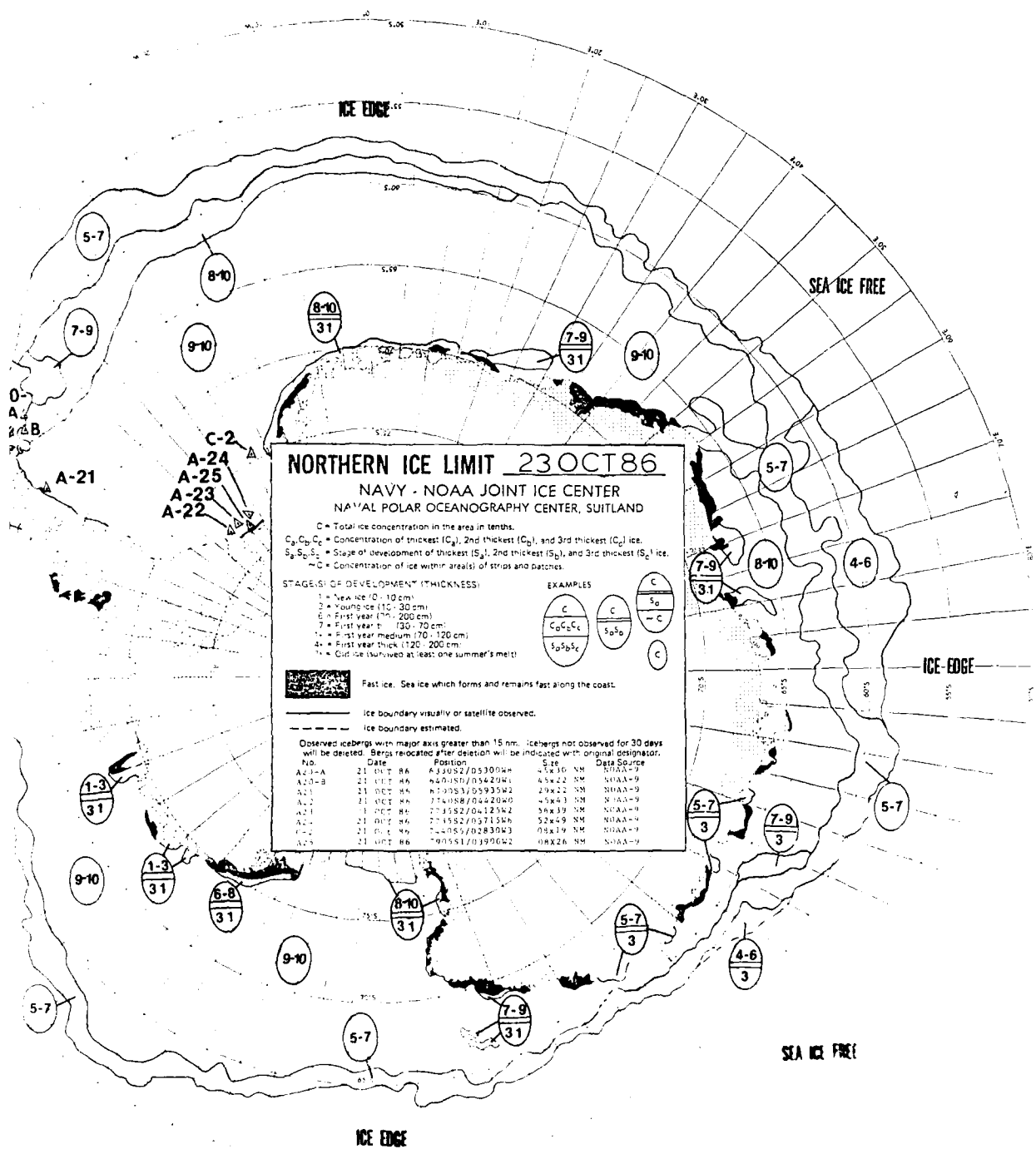












AD-A184 102

ANTARCTIC ICE CHARTS 1985-1986(U) NAVAL POLAR
OCEANOGRAPHY CENTER WASHINGTON DC AUG 87

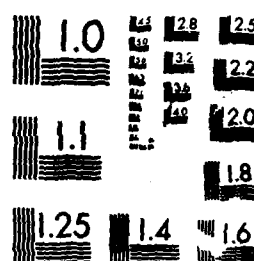
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UNCLASSIFIED

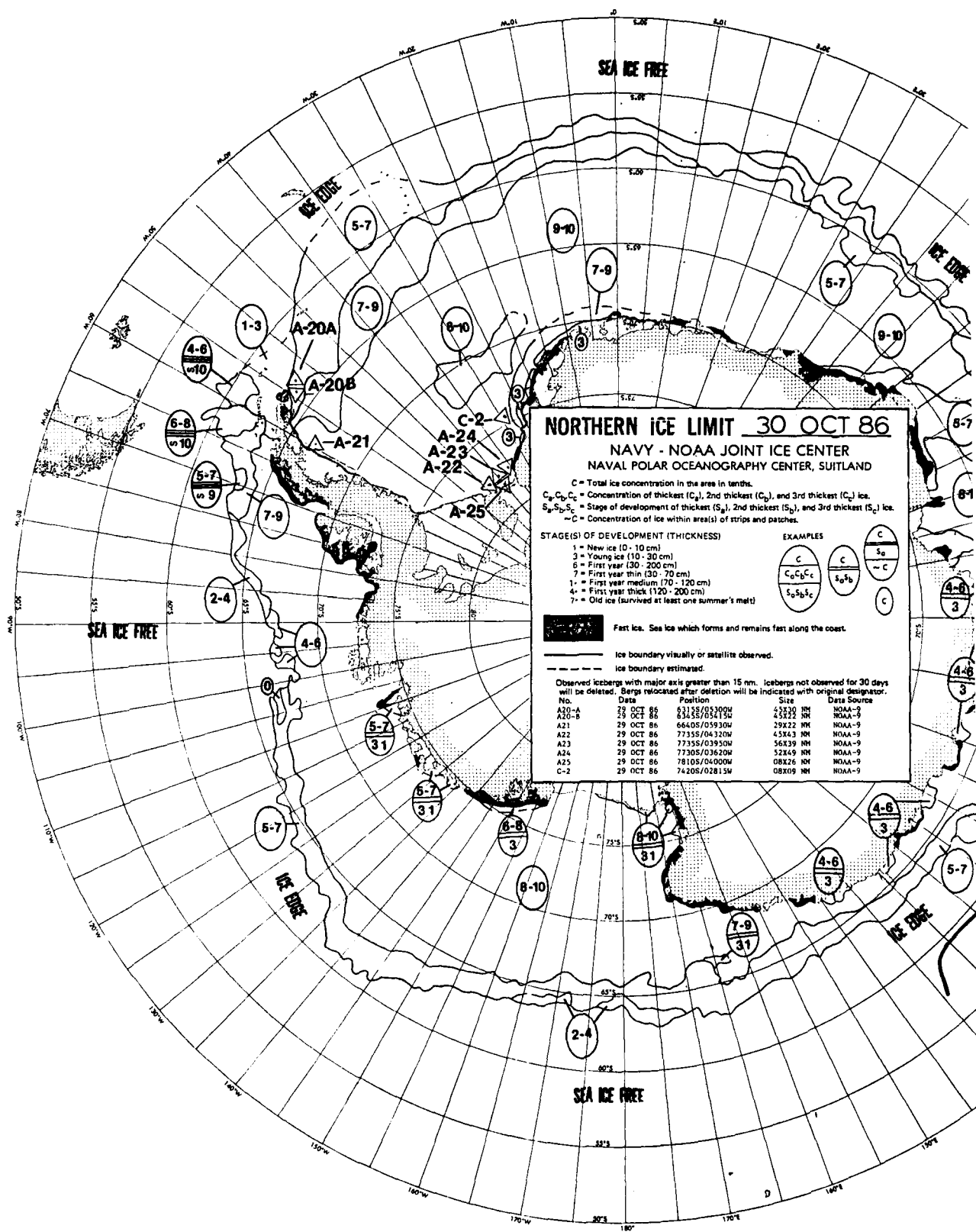
PAG 3/12

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



NORTHERN ICE LIMIT 30 OCT 86
NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

C = Total ice concentration in the area in tenths.
 C_1, C_2, C_3 = Concentration of thickest (C_1), 2nd thickest (C_2), and 3rd thickest (C_3) ice.
 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 -C = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 6 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES

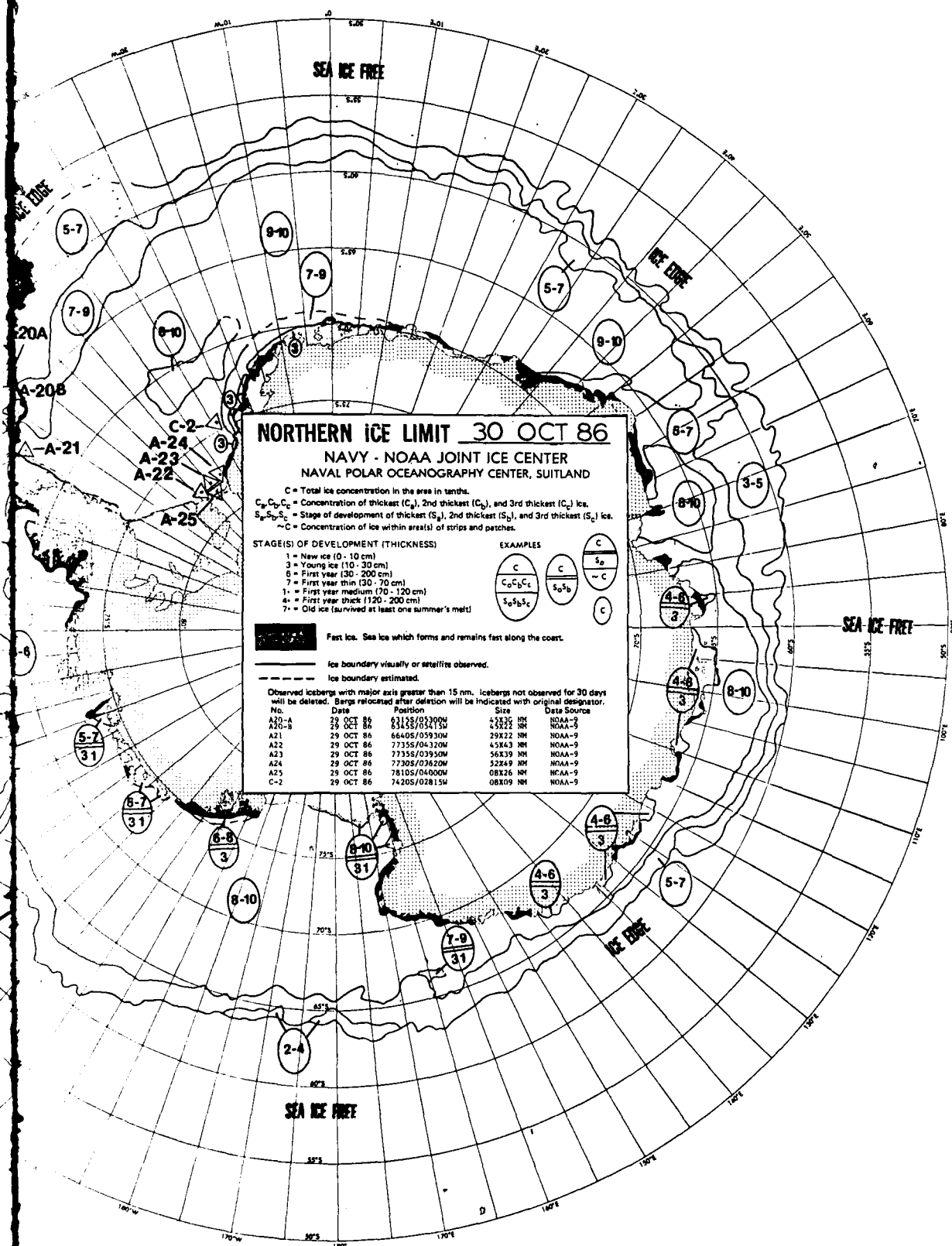
C	C_1	C_2	C_3	S_1	S_2	S_3
4-6	3	3	3	1	1	1
5-7	3	3	3	1	1	1
6-8	3	3	3	1	1	1
7-9	3	3	3	1	1	1
8-10	3	3	3	1	1	1
9-10	3	3	3	1	1	1

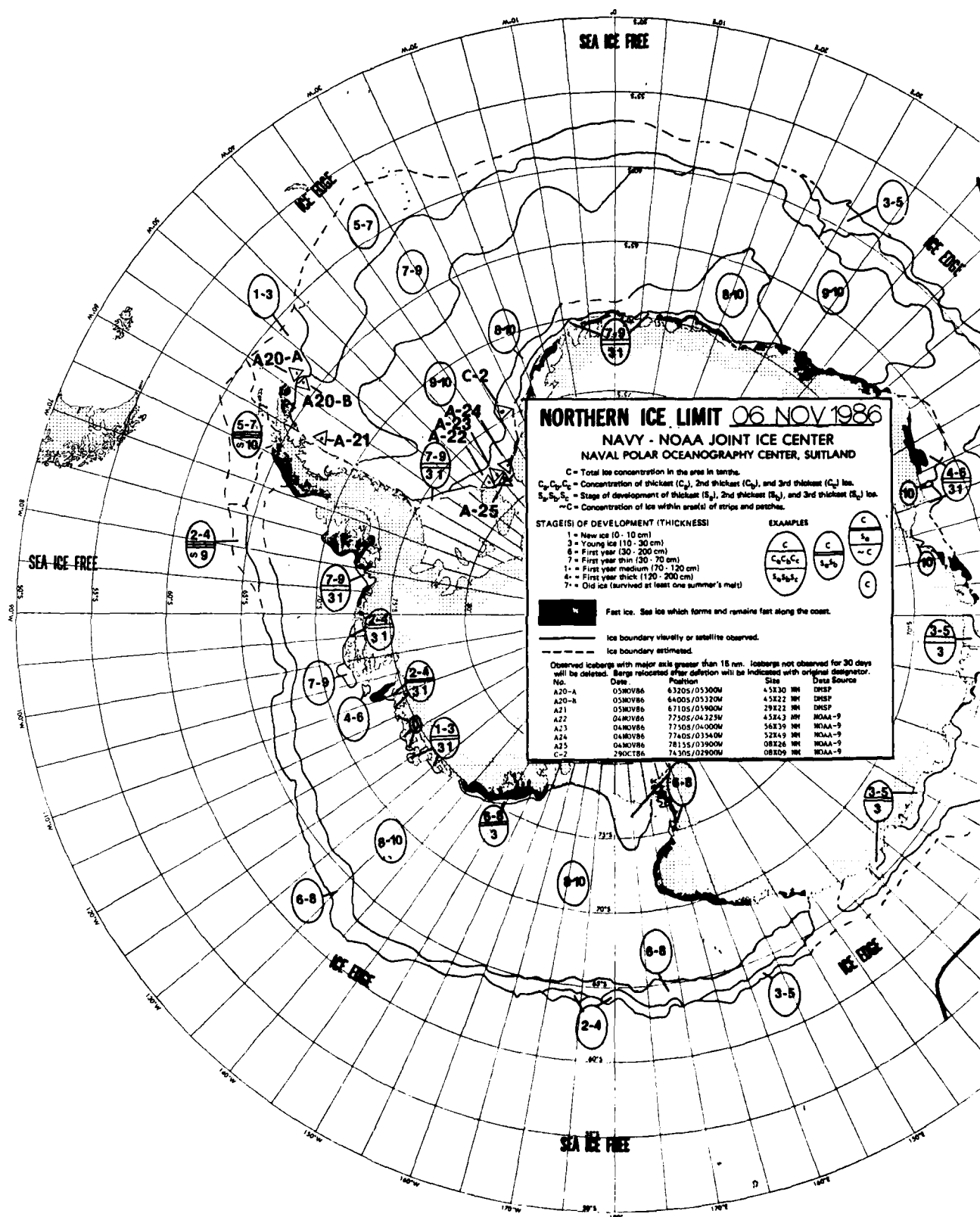
Fast ice. Sea ice which forms and remains fast along the coast.

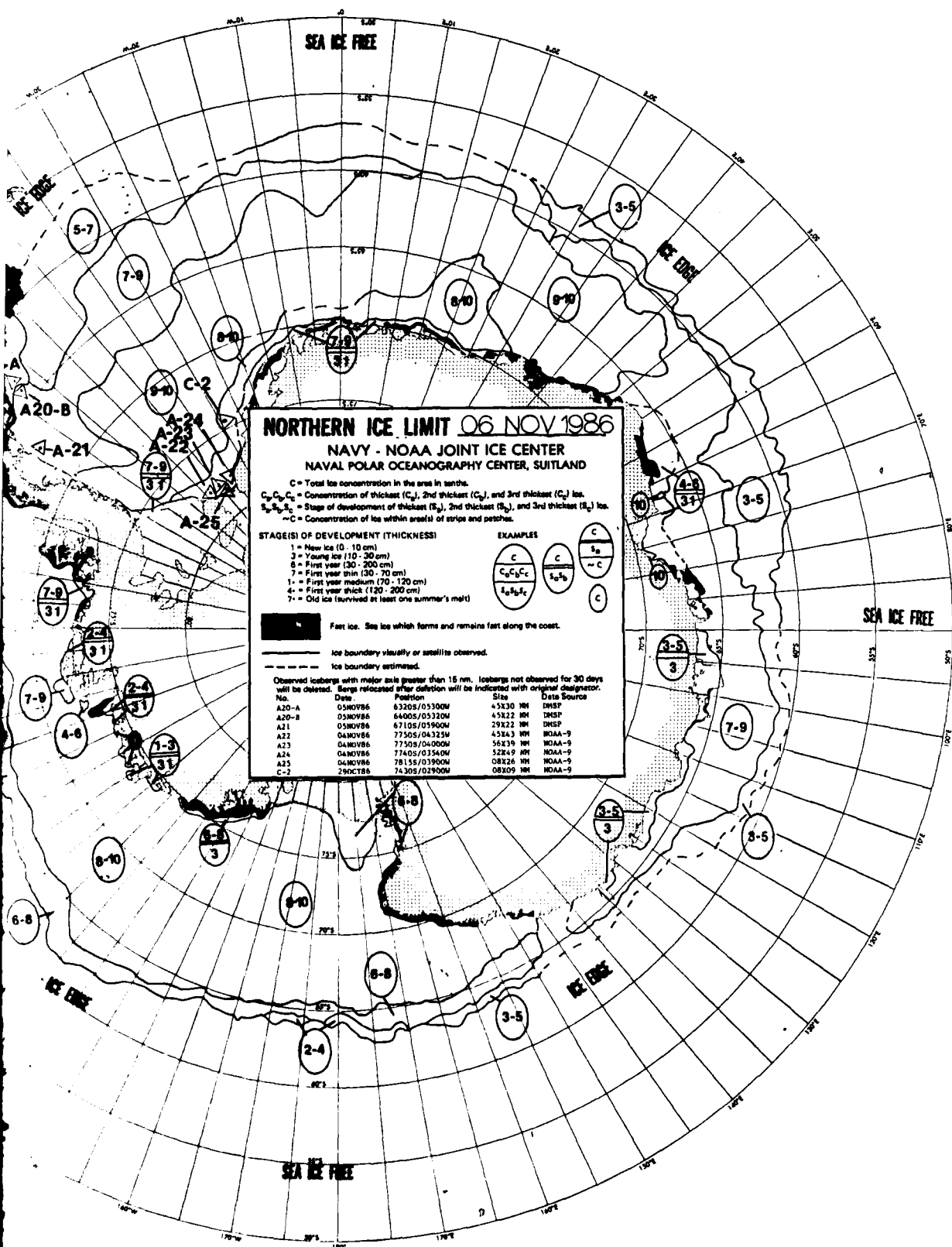
— Ice boundary visually or satellite observed.
 --- Ice boundary estimated.

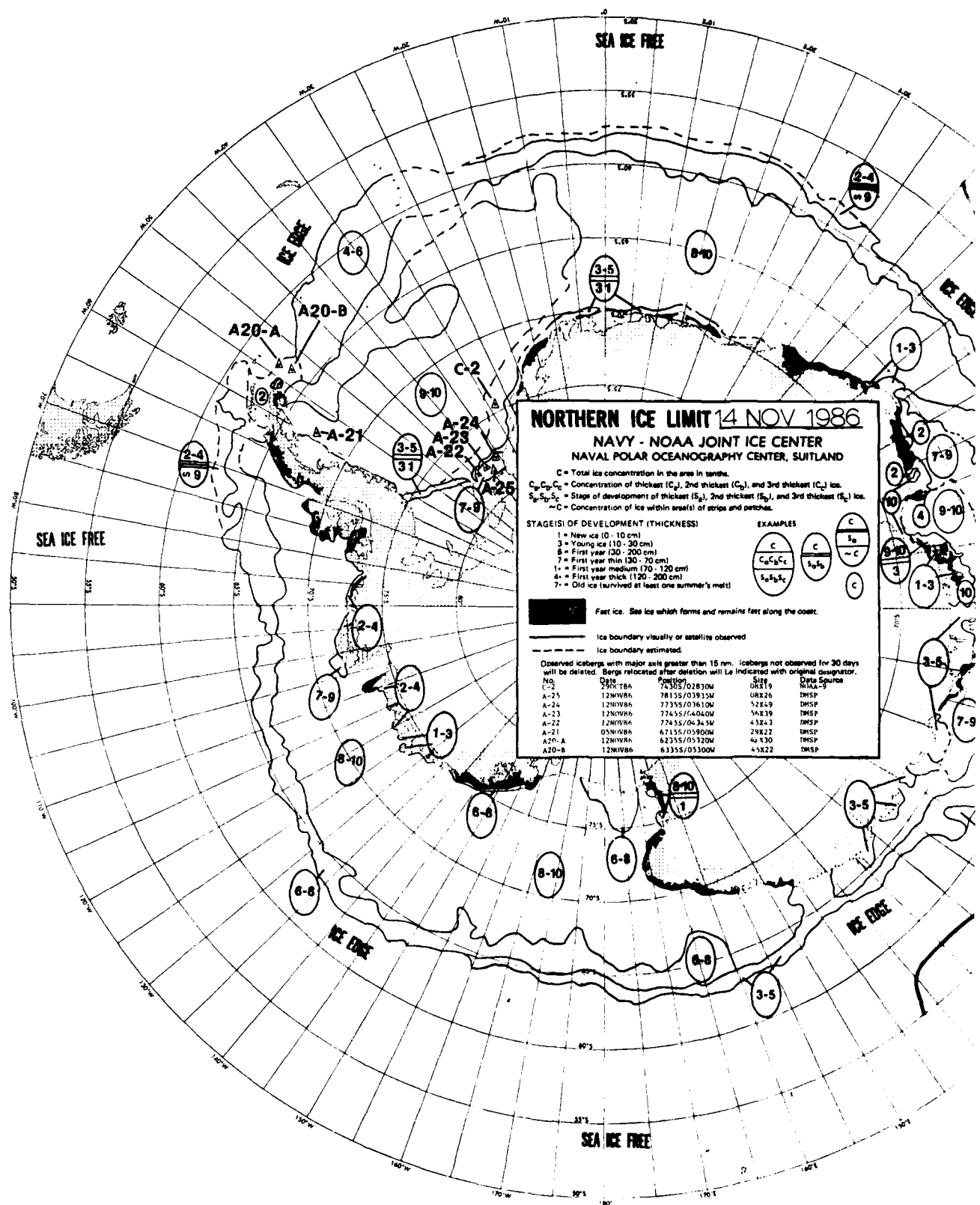
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

No.	Date	Position	Size	Data Source
A20-A	29 OCT 86	6312S/05300W	23230 NM	NOAA-9
A20-B	29 OCT 86	6345S/05415W	45222 NM	NOAA-9
A21	29 OCT 86	6640S/05930W	29222 NM	NOAA-9
A22	29 OCT 86	7735S/04320W	45X43 NM	NOAA-9
A23	29 OCT 86	7735S/03950W	56X39 NM	NOAA-9
A24	29 OCT 86	7730S/03620W	52X49 NM	NOAA-9
A25	29 OCT 86	7810S/04000W	08X26 NM	NOAA-9
C-2	29 OCT 86	7420S/02815W	08X09 NM	NOAA-9









NORTHERN ICE LIMIT 14 NOV 1986
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NAVAL POLAR OCEANOGRAPHY CENTER, SUITLAND

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 S_1, S_2, S_3 = Stage of development of thickest (S_1), 2nd thickest (S_2), and 3rd thickest (S_3) ice.
 $\sim C$ = Concentration of ice within area(s) of strips and patches.

STAGE(S) OF DEVELOPMENT (THICKNESS)

- 1 = New ice (0 - 10 cm)
- 3 = Young ice (10 - 30 cm)
- 8 = First year (30 - 200 cm)
- 7 = First year thin (30 - 70 cm)
- 1 = First year medium (70 - 120 cm)
- 4 = First year thick (120 - 200 cm)
- 7 = Old ice (survived at least one summer's melt)

EXAMPLES

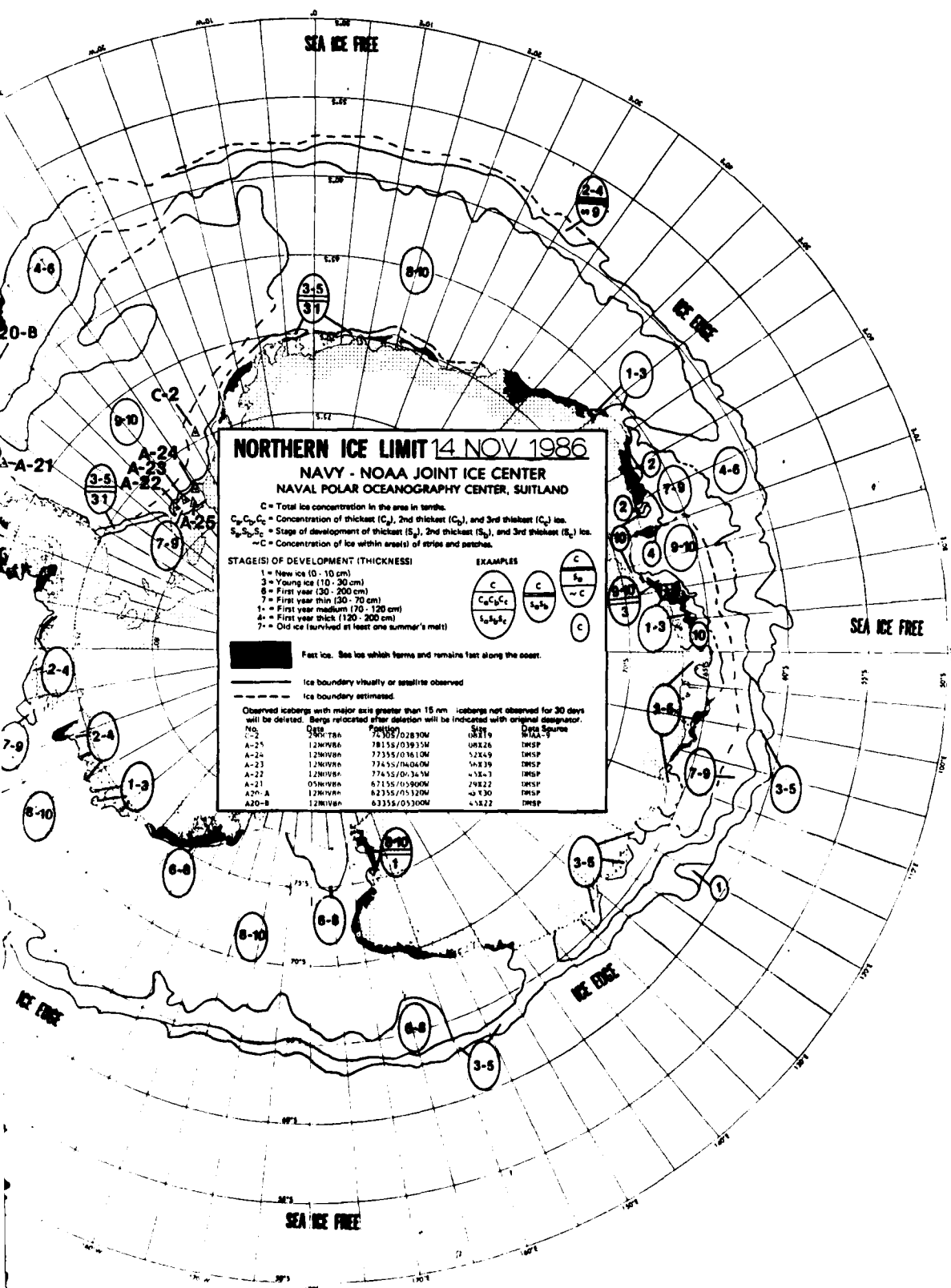
$\frac{C}{S_1 S_2 S_3}$ $\frac{C}{S_1 S_2}$ $\frac{C}{S_1}$ $\frac{C}{S_2}$ $\frac{C}{S_3}$ $\frac{C}{S_1 S_2 S_3}$ $\frac{C}{S_1 S_2}$ $\frac{C}{S_1}$ $\frac{C}{S_2}$ $\frac{C}{S_3}$

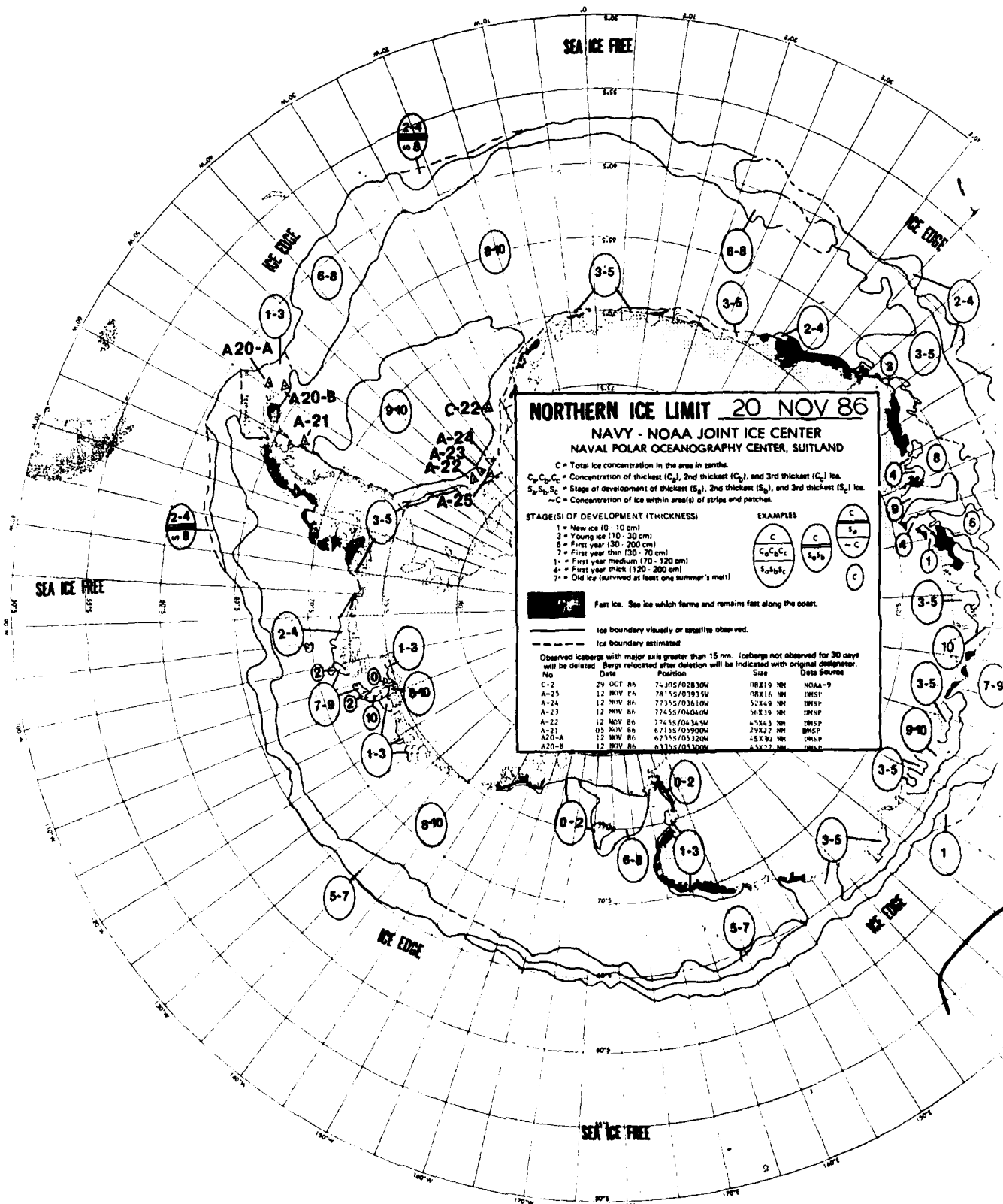
Fast ice. See ice which forms and remains fast along the coast.

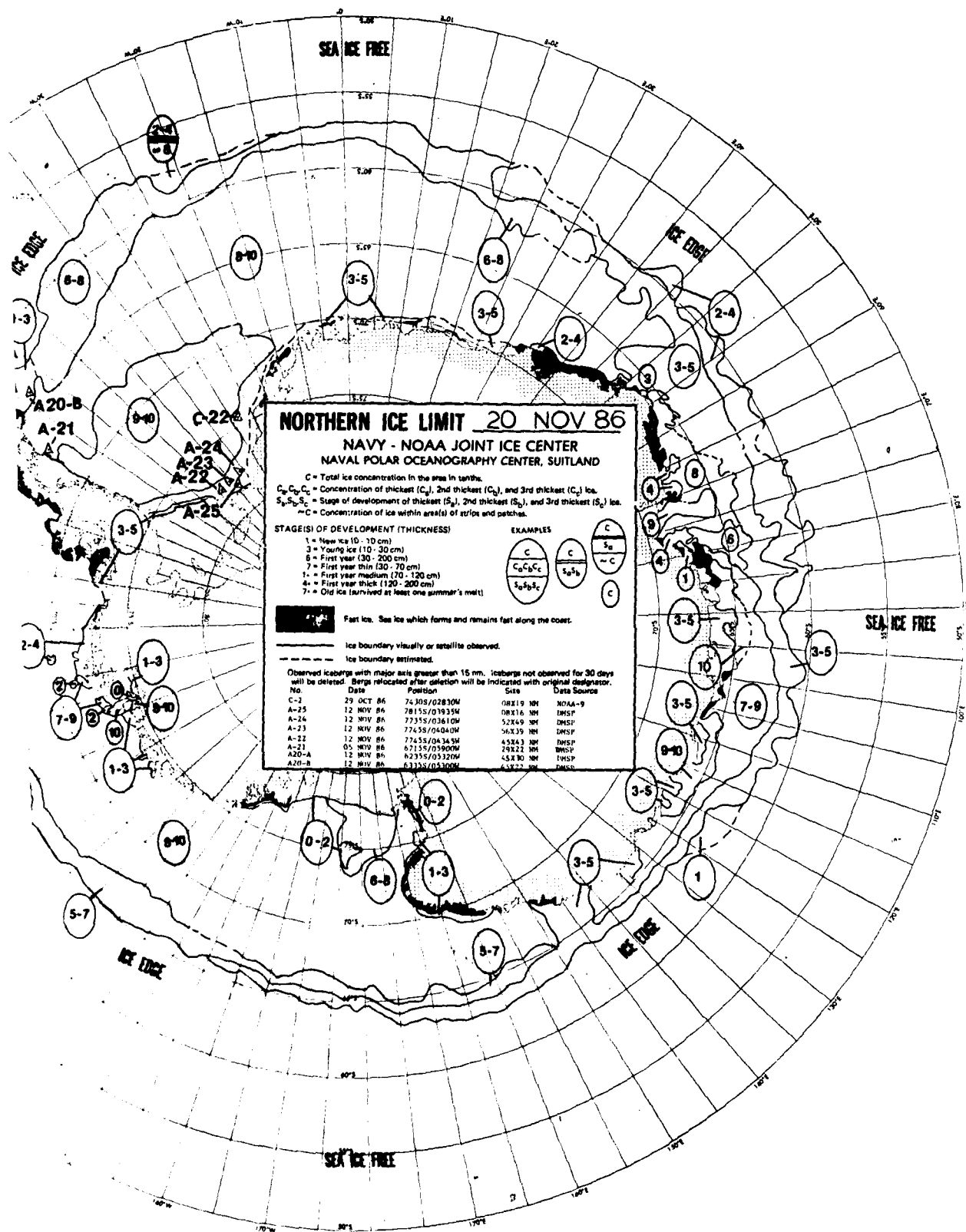
— Ice boundary visually or satellite observed
 --- Ice boundary estimated.

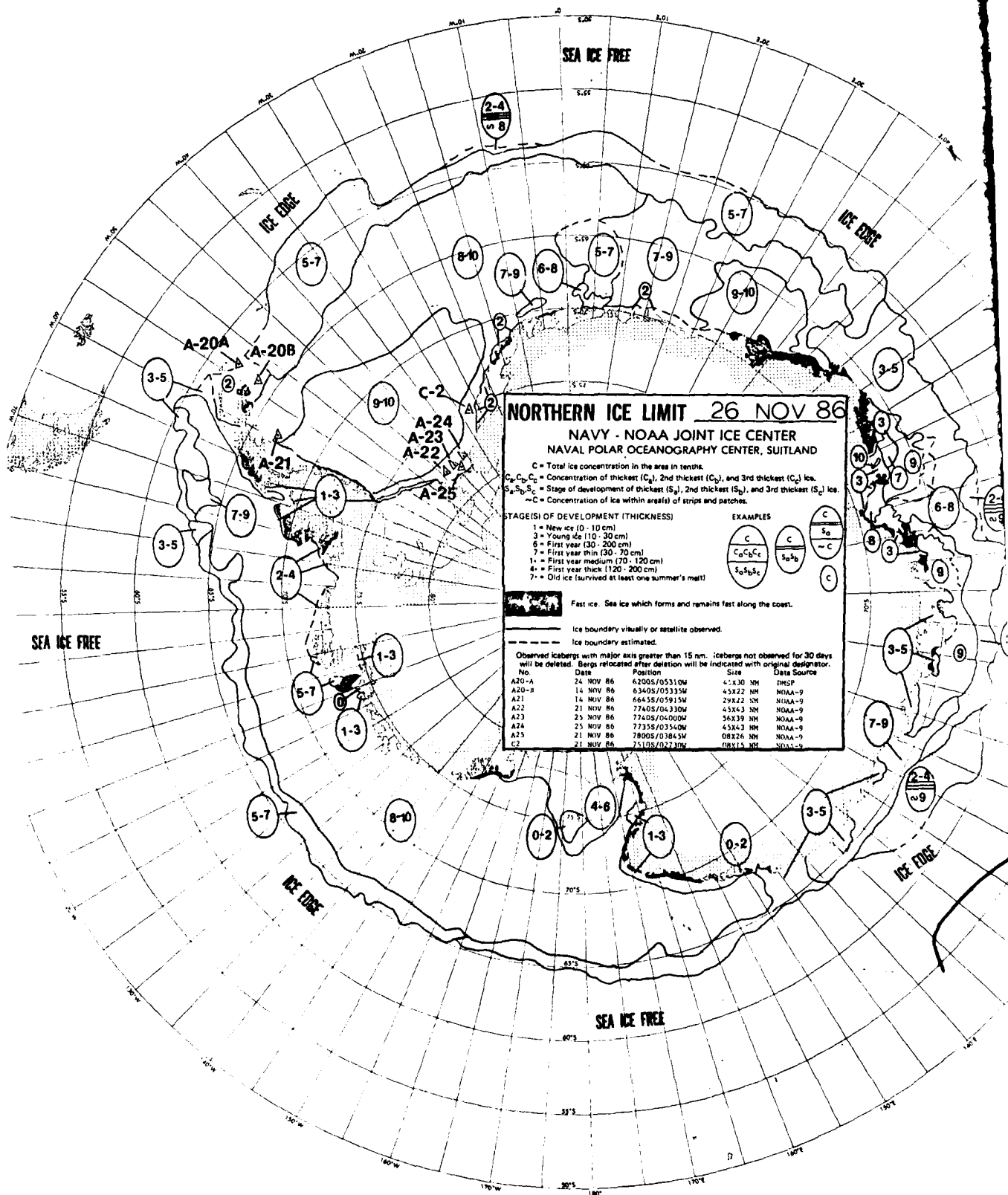
Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Berge relocated after deletion will be indicated with original designator.

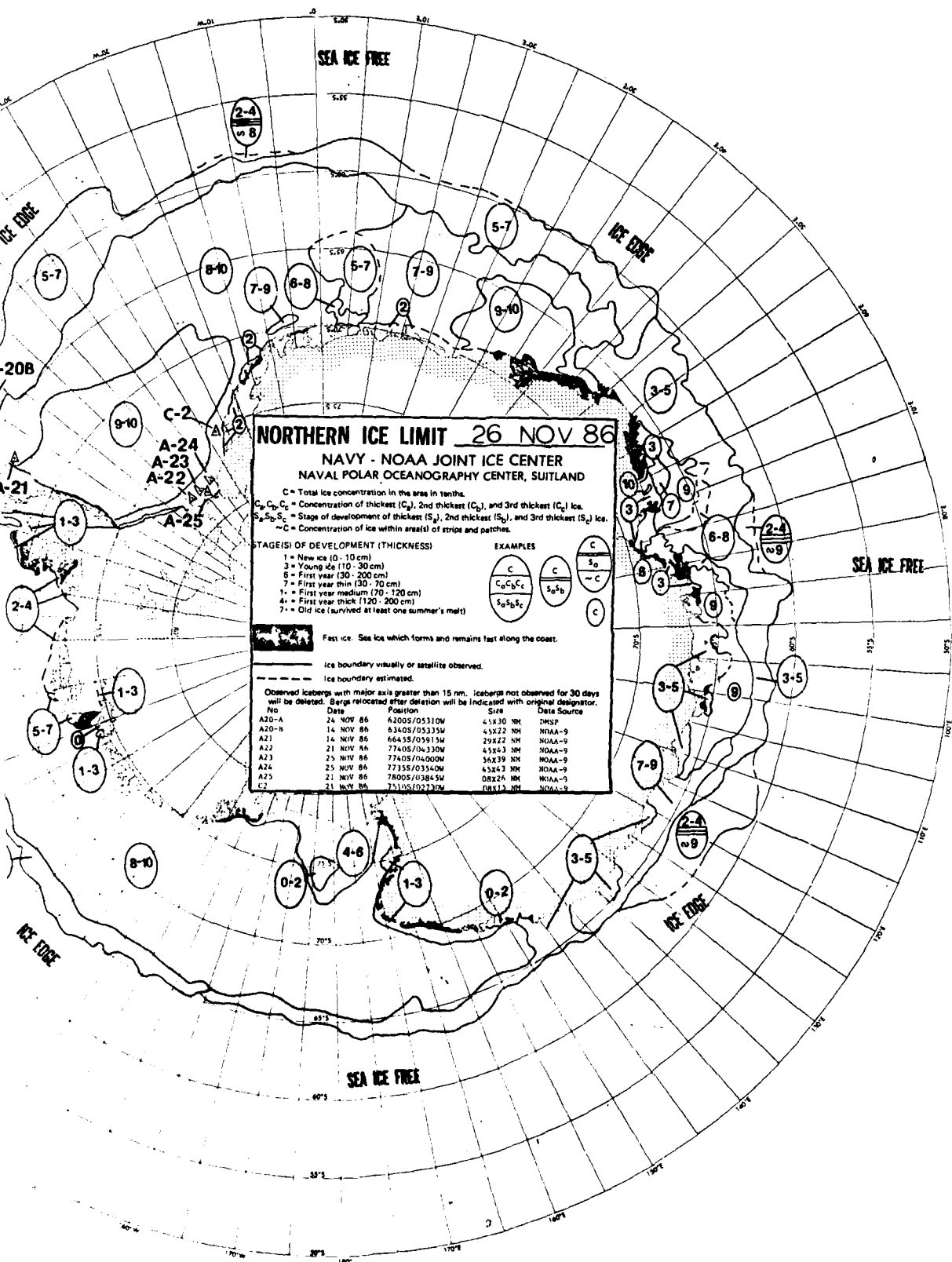
No.	Date	Position	Size	Data Source
A-25	12NOV86	74305/02830M	08119	NAVAL-9
A-24	12NOV86	78155/03913M	08126	DMSP
A-23	12NOV86	77355/01610M	5249	DMSP
A-22	12NOV86	77455/04040M	54339	DMSP
A-21	09NOV86	77455/04345M	45243	DMSP
A20-A	12NOV86	67155/05900M	29822	DMSP
A20-B	12NOV86	62355/05520M	44430	DMSP
A20-B	12NOV86	63355/05300M	45822	DMSP

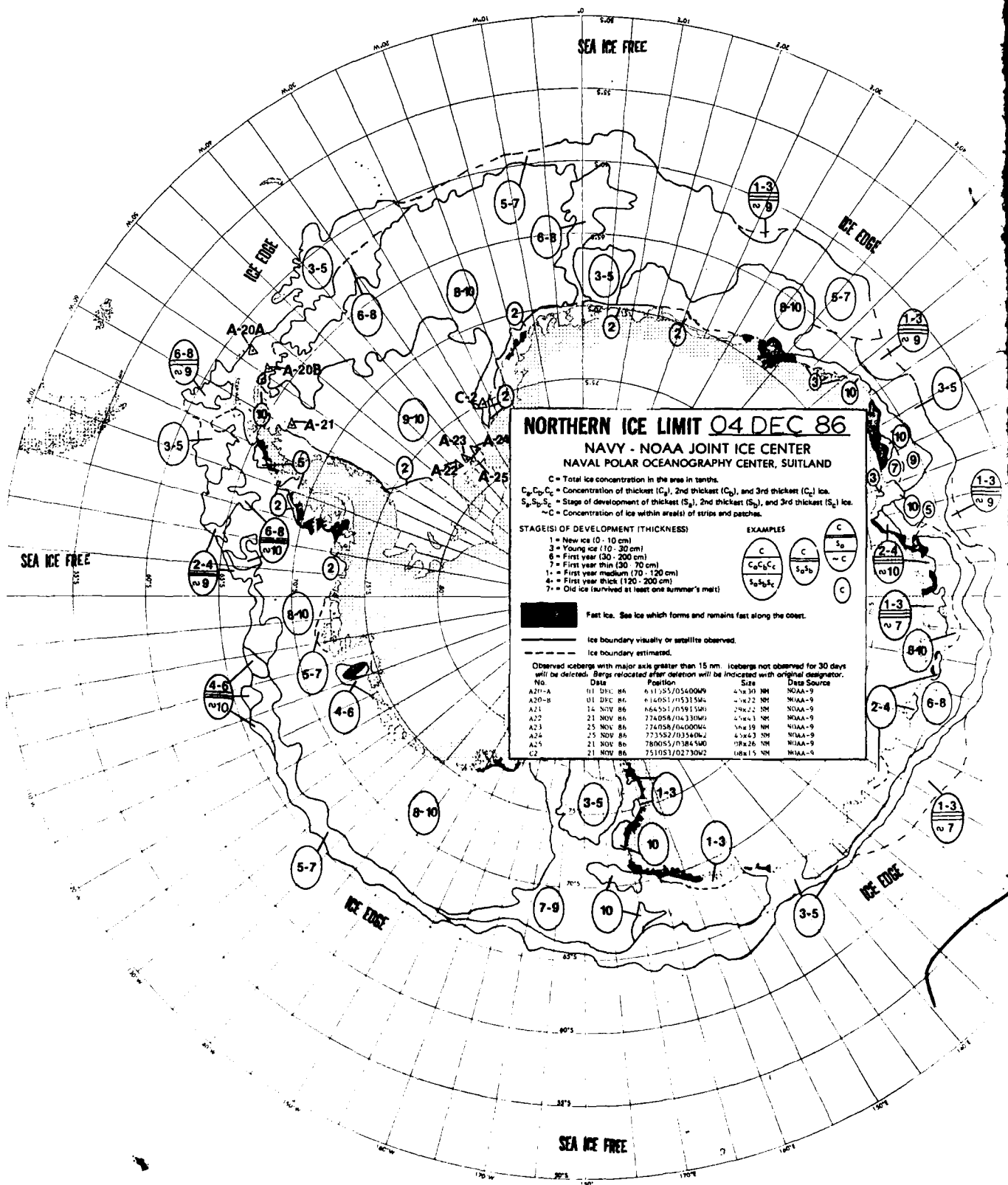


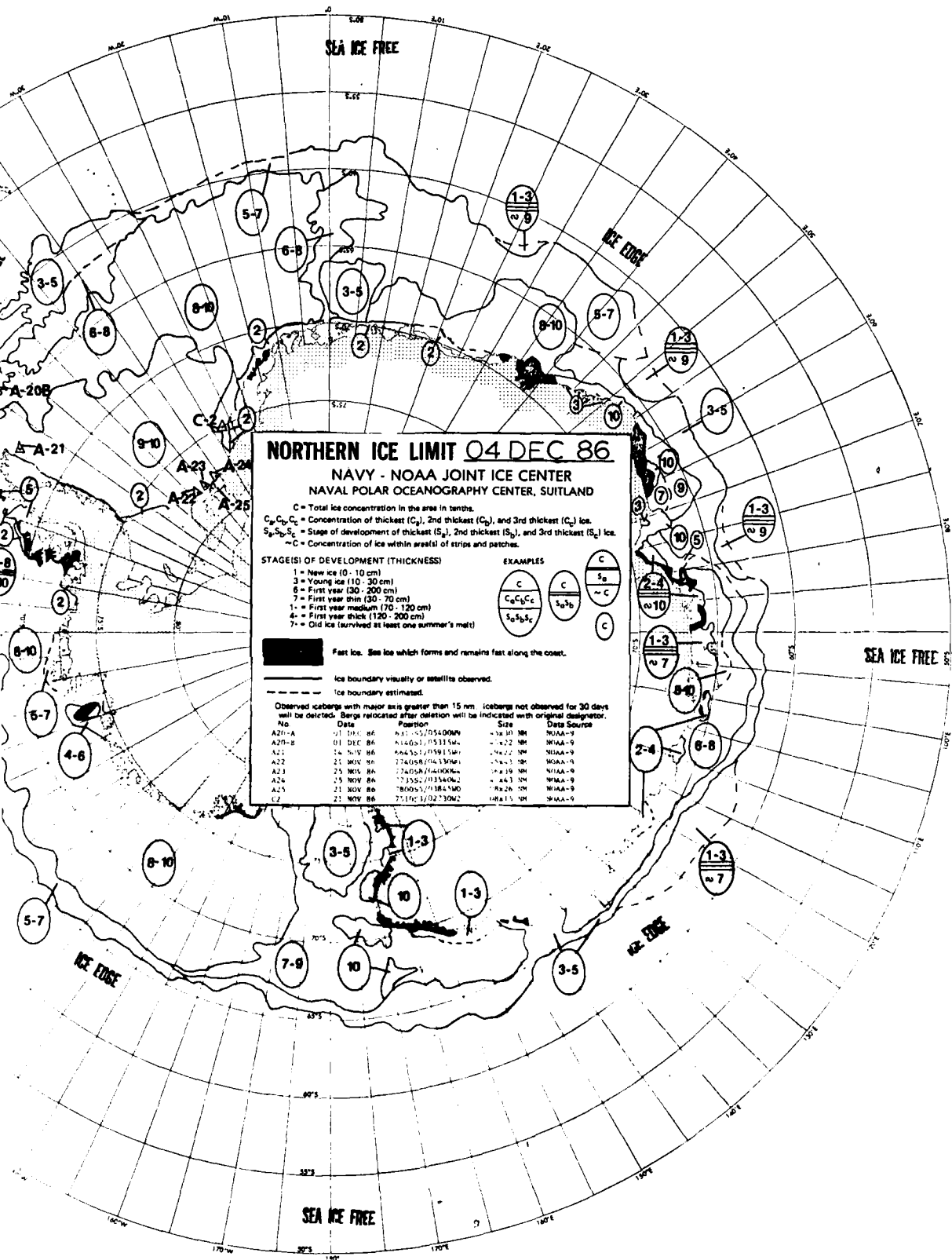


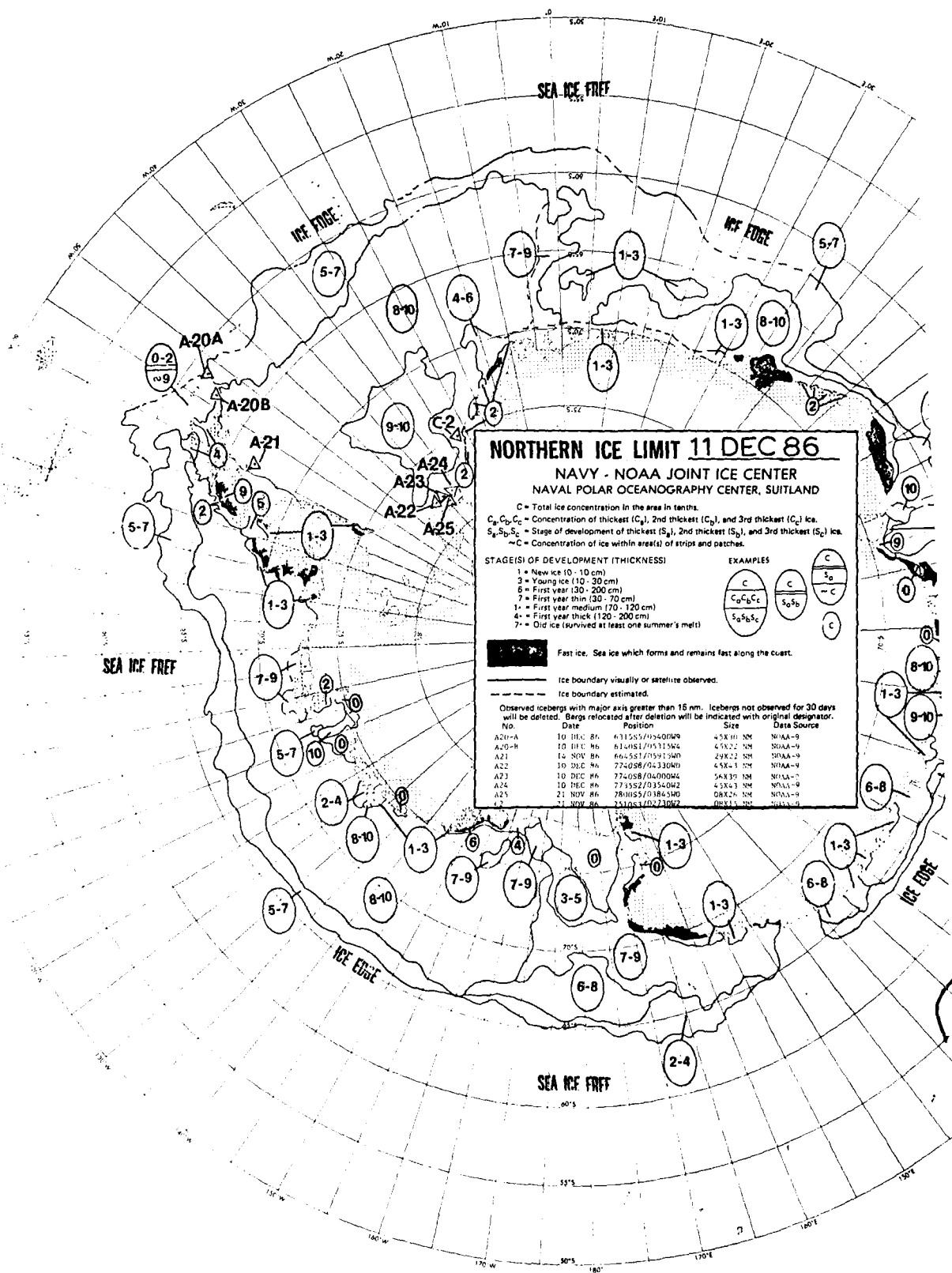


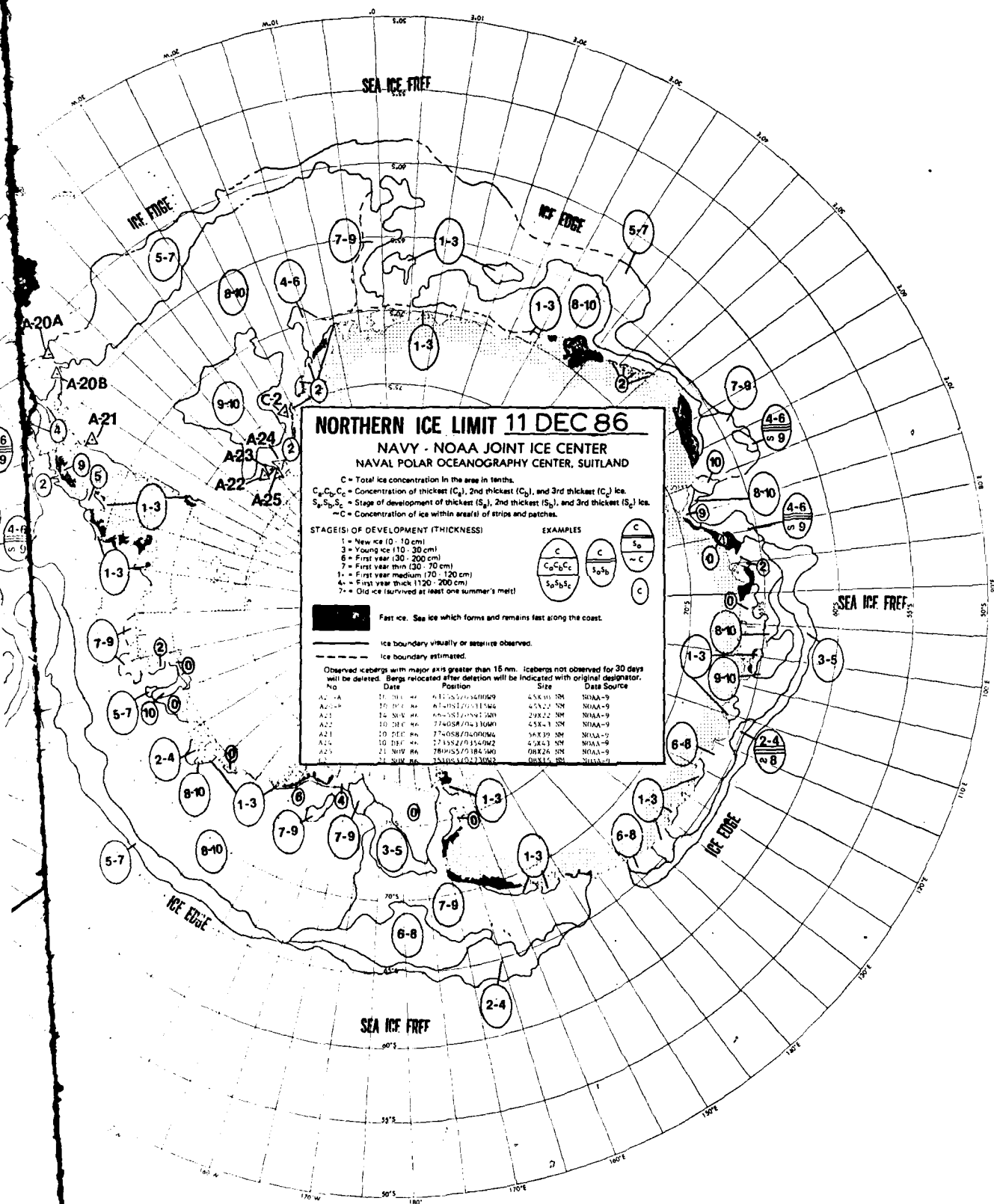


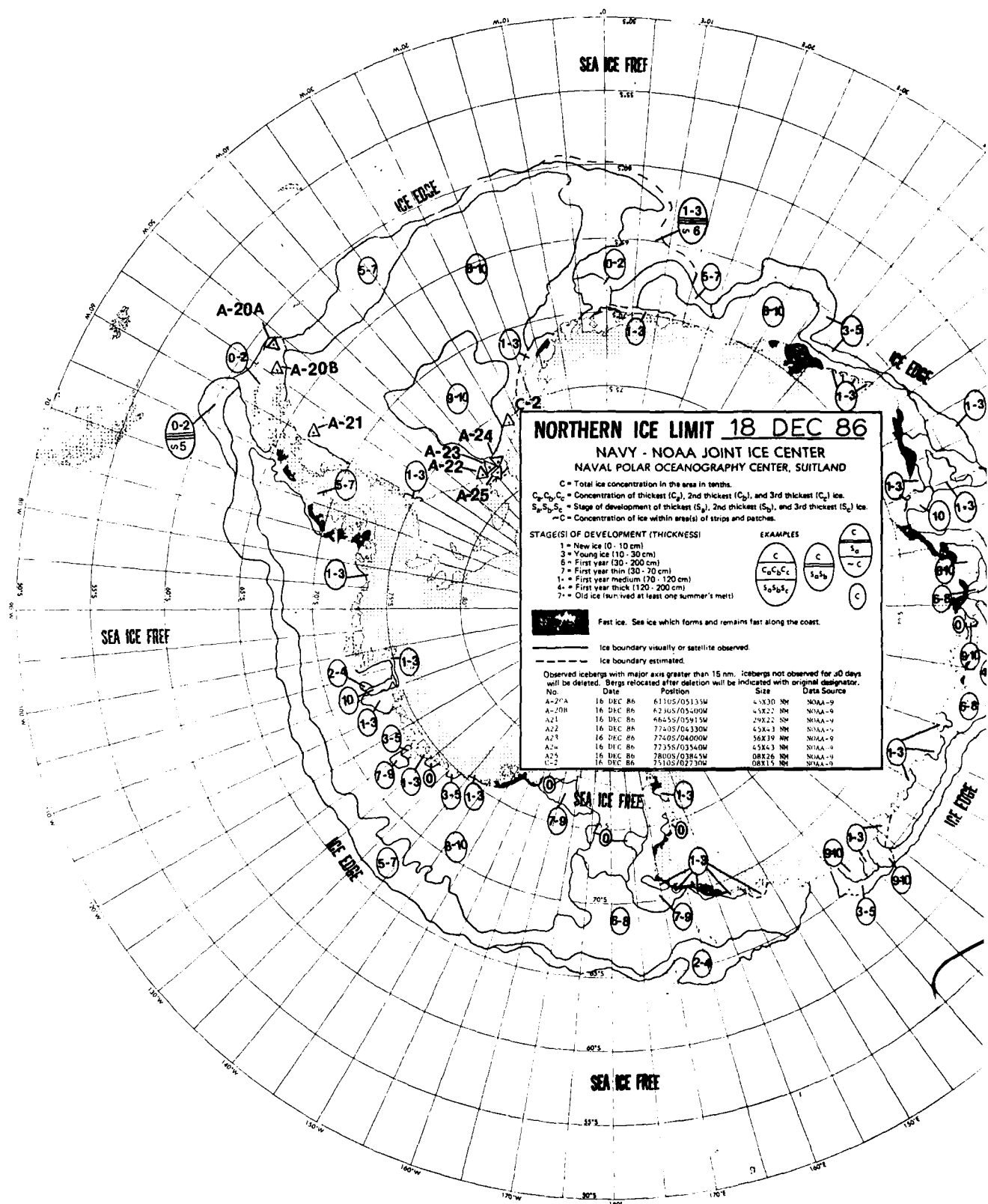


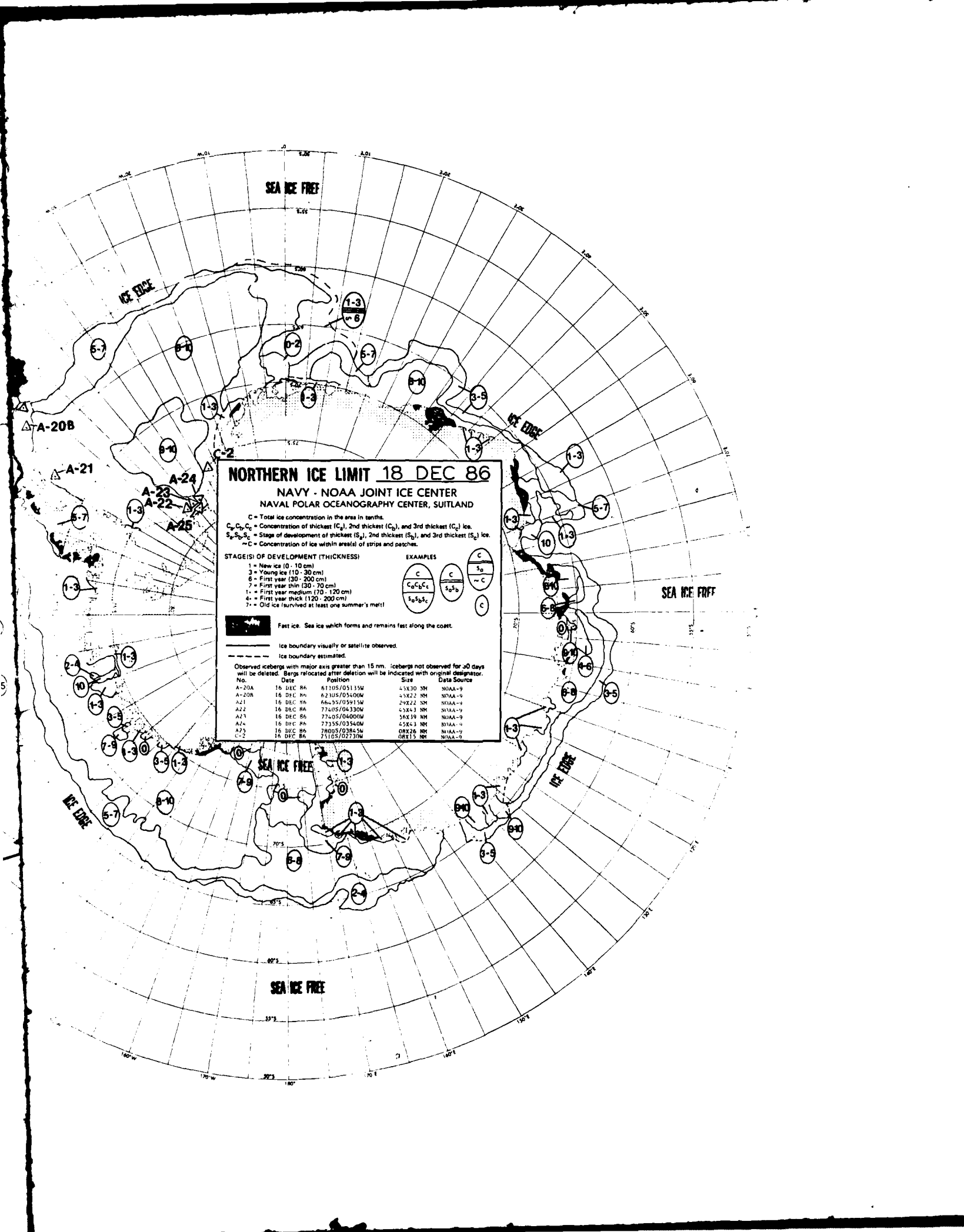


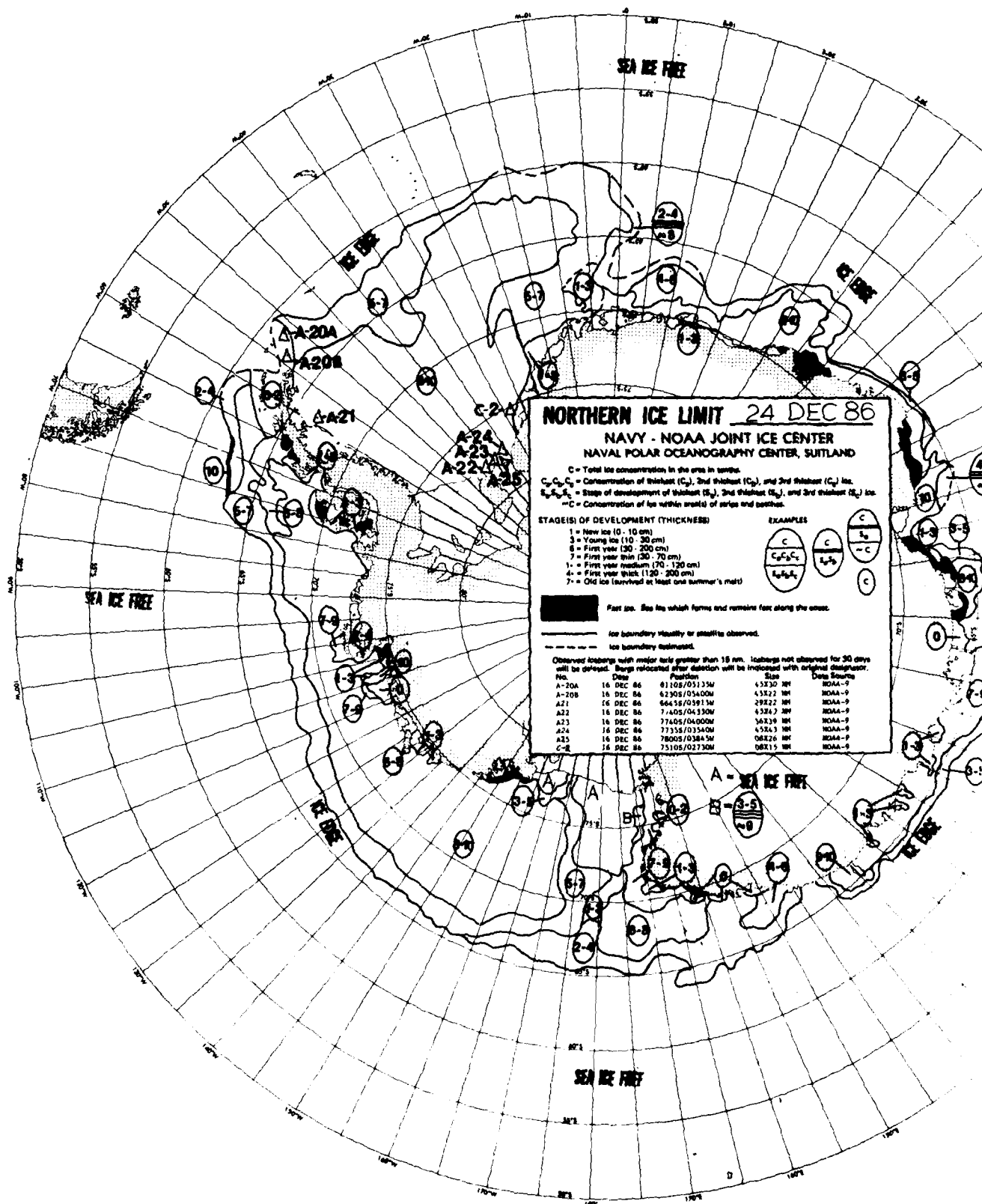


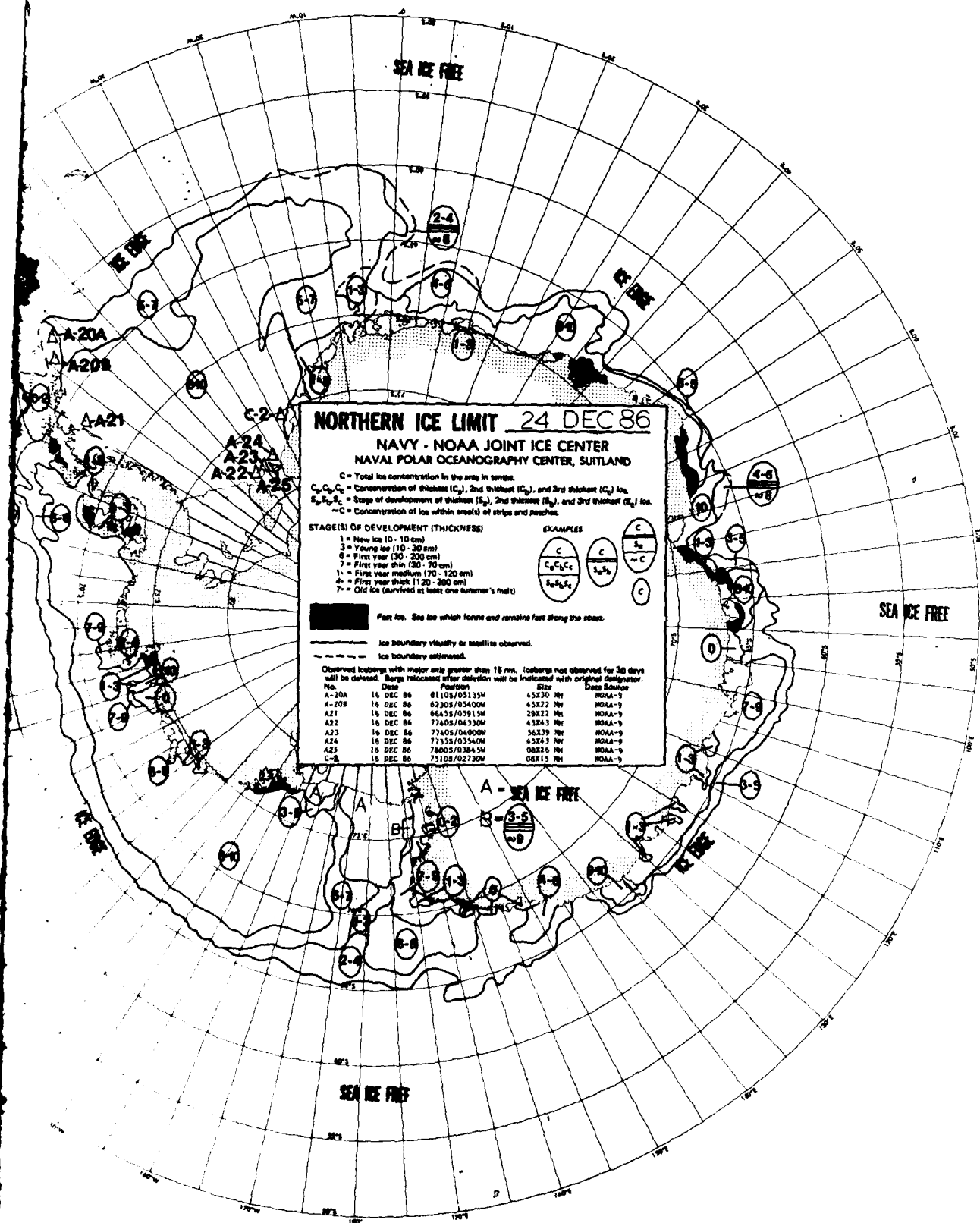










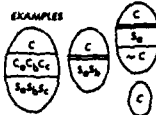


NORTHERN ICE LIMIT 24 DEC 86

NAVY - NOAA JOINT ICE CENTER
NAVAL POLAR OCEANOGRAPHY CENTER, SUTLAND

C = Total ice concentration in the area in percent.
C₁, C₂, C₃ = Concentration of thickest (C₁), 2nd thickest (C₂), and 3rd thickest (C₃) ice.
S₁, S₂, S₃ = Stage of development of thickest (S₁), 2nd thickest (S₂), and 3rd thickest (S₃) ice.
-C = Concentration of ice within area(s) of strips and patches.

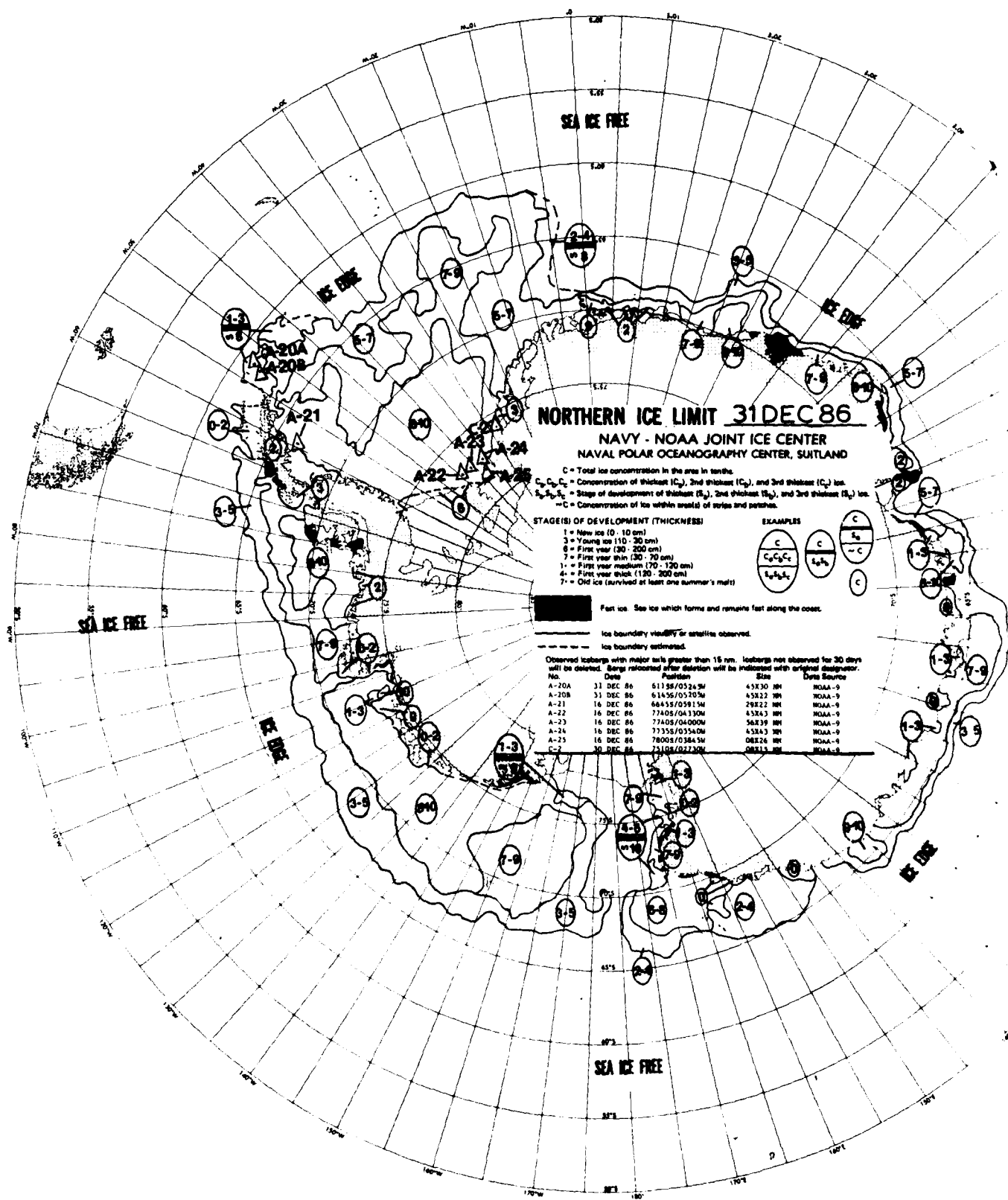
- STAGE(S) OF DEVELOPMENT (THICKNESS)**
- 1 = New ice (0 - 10 cm)
 - 2 = Young ice (10 - 30 cm)
 - 3 = First year (30 - 100 cm)
 - 4 = First year thin (30 - 70 cm)
 - 5 = First year medium (70 - 120 cm)
 - 6 = First year thick (120 - 200 cm)
 - 7 = Old ice (survived at least one summer's melt)



Fast ice. See ice which forms and remains fast along the coast.
Ice boundary visually or satellite observed.
Ice boundary estimated.

Observed icebergs with major axis greater than 15 nm. Icebergs not observed for 30 days will be deleted. Stars indicate after detection will be indicated with original designation.

No.	Date	Position	Size	Data Source
A-20A	16 DEC 86	8110S/05135W	45X30 NM	NOAA-9
A-20B	16 DEC 86	6230S/05400W	45X22 NM	NOAA-9
A-21	16 DEC 86	6645S/05915W	29X22 NM	NOAA-9
A-22	16 DEC 86	7740S/04330W	41X43 NM	NOAA-9
A-23	16 DEC 86	7740S/04000W	36X39 NM	NOAA-9
A-24	16 DEC 86	7735S/03540W	43X49 NM	NOAA-9
A-25	16 DEC 86	7800S/03845W	08X25 NM	NOAA-9
C-6	16 DEC 86	7510S/02730W	08X15 NM	NOAA-9



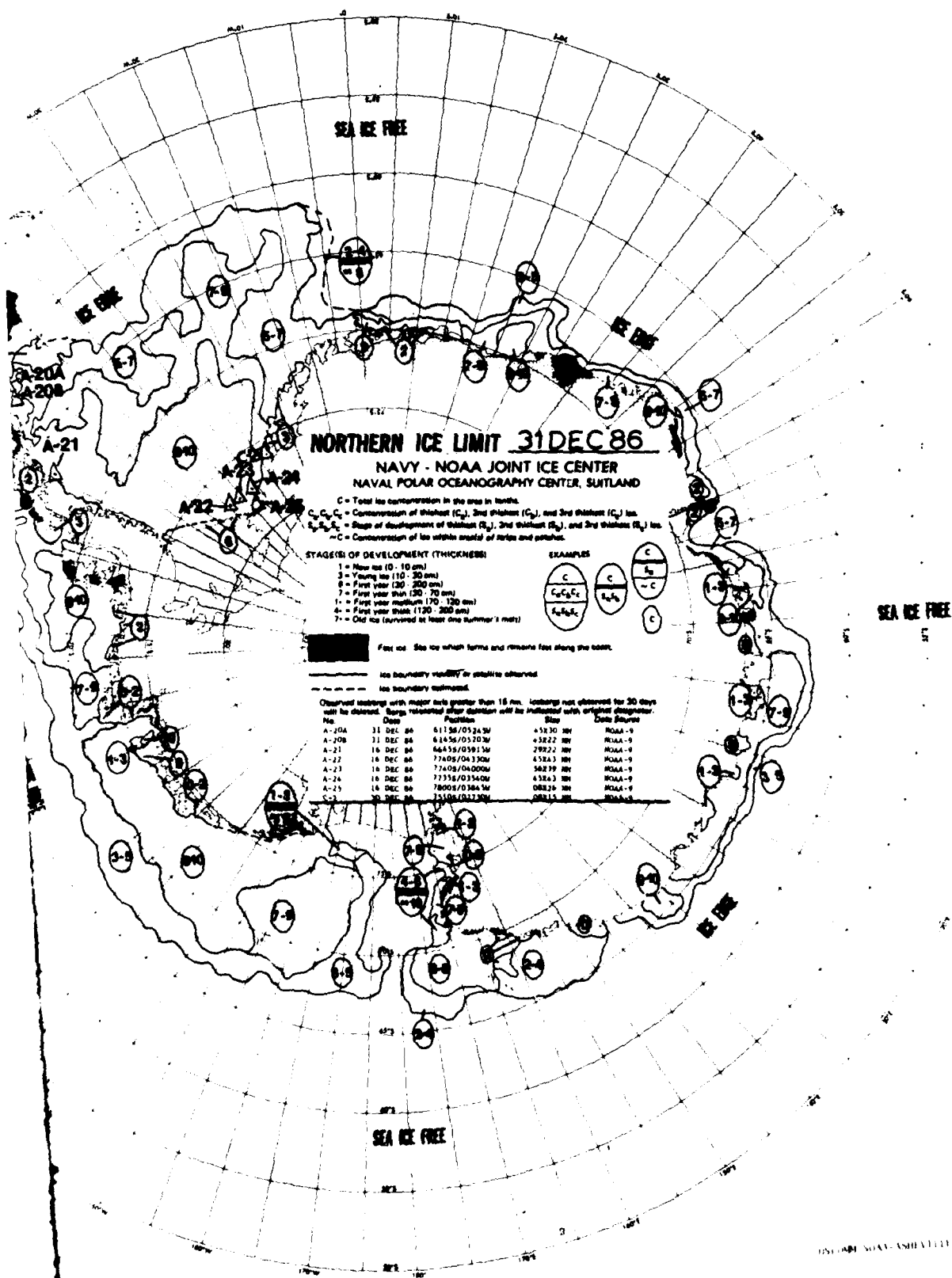


TABLE 1 SATELLITE DATA UTILIZED DURING 1985 AND 1986

TIME PERIOD		SATELLITE REMOTE SENSING			RESOLUTION	COVERAGE
FROM	TO	SATELLITE PLATFORM	SENSOR TYPE	SPECTRAL REGION		
1-85	1-86	NOAA-6	AVHRR NRPT/LAC VIS NIR IR	0.58-0.68 um 0.73-1.10 um 10.5-11.5 um	1 km	Regional
2-85	4-85		GAC VIS IR	0.58-0.68 um 10.5-11.5 um	4 km	Global
5-85	9-85	NOAA-7	AVHRR NRPT/LAC VIS NIR IR	0.58-0.68 um 0.73-1.10 um 10.5-11.3 um	1 km	Regional
			GAC VIS IR	0.58-0.68 um 10.3-11.3 um	4 km	Global
7-85	10-85	NOAA-8	AVHRR NRPT/LAC VIS NIR IR	0.58-0.68 um 0.725-1.10 um 10.5-11.5 um	1 km	Regional
			GAC VIS IR	0.58-0.68 um 10.5-11.5 um	4 km	Global
1-86	12-86	NOAA-9	AVHRR NRPT/LAC VIS NIR IR	0.58-0.68 um 0.73-1.10 um 10.5-11.5 um	1 km	Regional
			GAC VIS IR	0.58-0.68 um 10.5-11.5 um	4 km	Global
9-86	12-86	NOAA-10	AVHRR NRPT/LAC VIS NIR IR	0.58-0.68 um 0.73-1.10 um 10.5-11.5 um	1 km	Regional
			GAC VIS IR	0.58-0.68 um 10.5-11.5 um	4 km	Global
1-86	12-86	SEVENS-7	SMR	0.81 cm 1.66 cm	50 km	Global
5-86	12-86	GEOSAT	RADAR ALTIMETER	N/A	7 km	Global
1-86	12-86	ERSP-F(6)	VIS IR	0.4-1.1 um 10.2-12.8 um	3.7 km 4.4 km	Global
1-86	12-86	ERSP-F(7)	VIS IR	0.4-1.1 um 10.2-12.8 um	3.7 km 4.4 km	Global

Abbreviations and Acronyms

- AVHRR - Advanced Very High Resolution Radiometer
- cm - Centimeter
- GAC - Global Area Coverage
- NRPT - High Resolution Picture Transmission
- IR - Infrared
- km - Kilometer
- LAC - Local Area Coverage
- SMR - SeaWiFS
- SMR - Scanning Multifrequency Microwave Radiometer
- VIS - Visible
- um - Micrometer

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